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1. Product Characteristics

1-1 Product Characteristics

■ **Optimum Replacement for Time-lapse Recorder**

Traditional Time-lapse Recorder is a mechanical device. It is very easy to break down after long-term operation and it causes many problems such as: the overly used magnetic heads which cause blurred image; tapes need to be changed often and manually; the recording time is not long enough; the management of recorded tapes is complicated; inefficient when trying to locate the needed data; recording a huge amount of useless images, etc.

SuperVision adopts digital recording technology. The quality of images will not deteriorate with time. With its high compression rate, the storage time can last for months under normal applications. The overwrite operation mode will overwrite the earliest data, and no more tape change is required. Motion detection function will enable the recording only when there is motion of the objective, and makes the system and data retrieval more efficient.

■ **High Reliability**

Normal PC digital surveillance system adopts the MS-Windows OS (Operating Systems). Such kind of system is so often to crash. It usually makes a negative impression which digital surveillance system is unreliable.

SuperVision adopts Embedded-Linux OS. Our advanced embedded technology condenses the entire system into a tiny flash module, which makes the system more reliable. Even when the power fails, the system will re-boot and return to normal operation in less than one minute.

■ **Longer Recording Days**

SuperVision adopts the advanced MPEG-4 compression to store the video images. It allows you to record more data on the same capacity of hard disks.

■ **Ease of Operation**

Mouse clicking on the Graphical User Interface controls all the operations. No keyboard is needed so that it is most suitable for the security guards and normal non-IT based users to use.

- **Multi-Function**

Function of one set of ***SuperVision*** = Time-lapse Video Cassette Recorder + Multiplexer processor + Motion Detection Processor

You can backup the data to CD-R/RW, remotely monitor the images and still recording the current video data at the same time.

1-2 Main Features for SV1000

Items		Description
System	OS	Embedded Linux
	Video Inputs	4/8/12/16 channels in BNC jack
	Video Outputs	D type 15 Pins VGA and TV-Out
	Video Format	NTSC/PAL
	Audio Input/Output	1 Channel input and 1 Channel Output
	PC Interface	PCI Slot
	Multi-Tasking	Yes
Display	User Interface	800*600, very user friendly
	Frame rate	Realtime display
	Resolution	640*480
	HDD Usage Display	Yes
	Hidden Camera	Yes
	Video Loss Detection	Yes
	Image Parameter Adjustment	Brightness/Contrast/Hue/Saturation for each camera
Recording	Compression	MPEG 4 like Compression
	Resolution	640*480,640*240,320*240
	Frame rate	NTSC:120/240/240/240, PAL:100/200/240/240 @320*240
	Pre-Schedule Recording	By 7days x 24hours, set each hour as: recording by motion, continuously recording, non-recording
	Motion detection area	Define any 8x8 cell for motion detection. Free combinations of detected areas. No limitation on the number of detection areas.
	Motion detection sensitivity	10 ranges per camera
	Pre-Recording	0~10 sec
	Post-Recording	0~20 sec
	Watermark	Yes
	Date Code	Recording includes time/date information. To prevent date code from being modified
Playback	Playback channels	4 channels playback at the same time
	Playback mode	Play, Pause, frame by frame play, fast forward, fast backward
	Video Enhancement	De-interlace, Sharpen
	Search	Search by time, date and event.
	Image Adjustment	Brightness/Contrast

Remote Functions	Network Access	LAN/ WAN/ Internet, by Ethernet/ Modem
	Network Interface	10/100/1000 Ethernet
	Remote Monitoring	JPEG mode or MPEG 4 streaming.
	Remote Playback	Yes. with MPEG 4 Streaming Technology.
	Remote Setup	Yes
	Download and Local Play	Yes
	Central Management	Yes
	Remote Backup	by Windows Network Neighborhood
	DHCP Support	Yes
	DDNS Support	Yes
Alarm	i-Mode	Yes
	Inputs	4/8/12/16 NC/NO dry contact inputs
	Outputs	4/8/12/16 NC/NO relay
	IO & Camera Relations	1-1, 1-many, many-1, many-many
	Motion/Alarm to Zoom	Yes
Storage & Backup	Alarm to notice	by Email / FTP / SMS (Short Message requires GSM modem)
	Max IDE HDD	Support up to 6 IDE HDDs
	RAID support	Support IDE/SCSI RAID
	Backup	USB/ IDE burning device(CD-R/RW, DVD±R/RW) ; USB storage (Pen Drive, HDD)
	HDD SMART Diagnostics	Yes
Other	Password protection	100 user accounts, each one can see different cameras
	PTZ camera support	Yes
	Power Down Management	Yes. Auto-recovery when power back
	Watchdog	Yes Hardware Watchdog.
	Time Zone/Daylight Saving	Yes
	AVI Format Export	Yes
	Time Sync	Support Time Server, FM and RTC Time Sync
	UI Language	8 languages in single software: English, French, German, Japanese, Polish, Portuguese, Spanish, Traditional Chinese

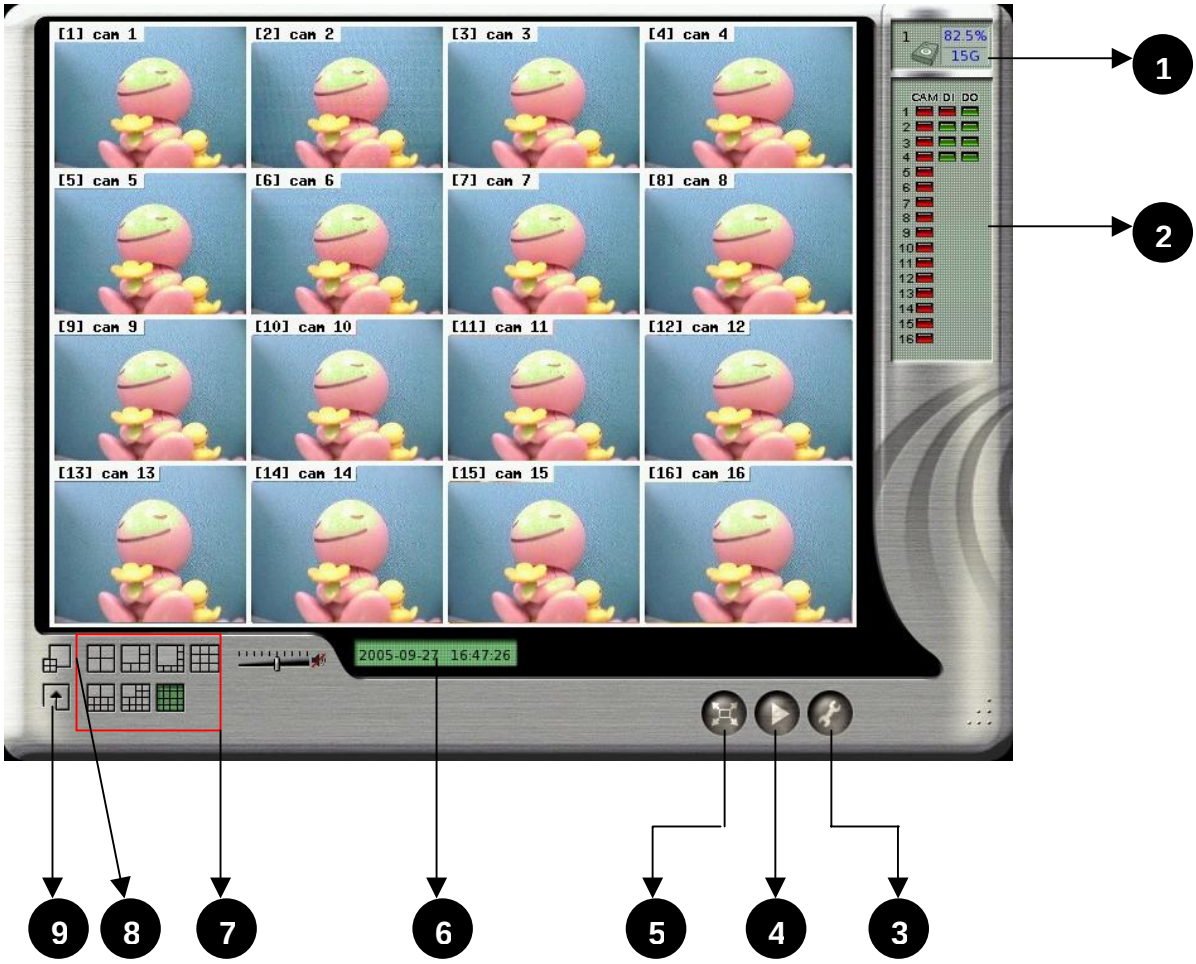
* Specifications subject to change without notice

2. Language Selection

You can select your preferred display language at “Main Menu” before starting DVR system. There are seven languages that are supported in this version- Traditional Chinese, English, Japanese, French, German, Portuguese, and Spanish.

3. Main Screen

After turning on the DVR, launch the DVR program and it will show the following main screen,



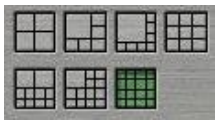
The controls in the main screen including:

	Function	Description
1	Storage Space	Indicate the HD free space status
2	Recording/ DI/DO Status	Camera recording status and alarm/sensor input and output status
3	System Setting	Quick access to system configuration
4	Playback	Quick access to playback mode
5	Full Screen Monitoring	Monitor in full Screen
6	Date/Time	Display current date and time
7	Display Mode	Select display divisions
8	Motion/Alarm to Zoom	Activate zooming function when motion or alarm occurs
9	Sequencer	Display in sequence

Note:

Whenever you click this button , the system will return to the main screen.

3-1 Display Mode

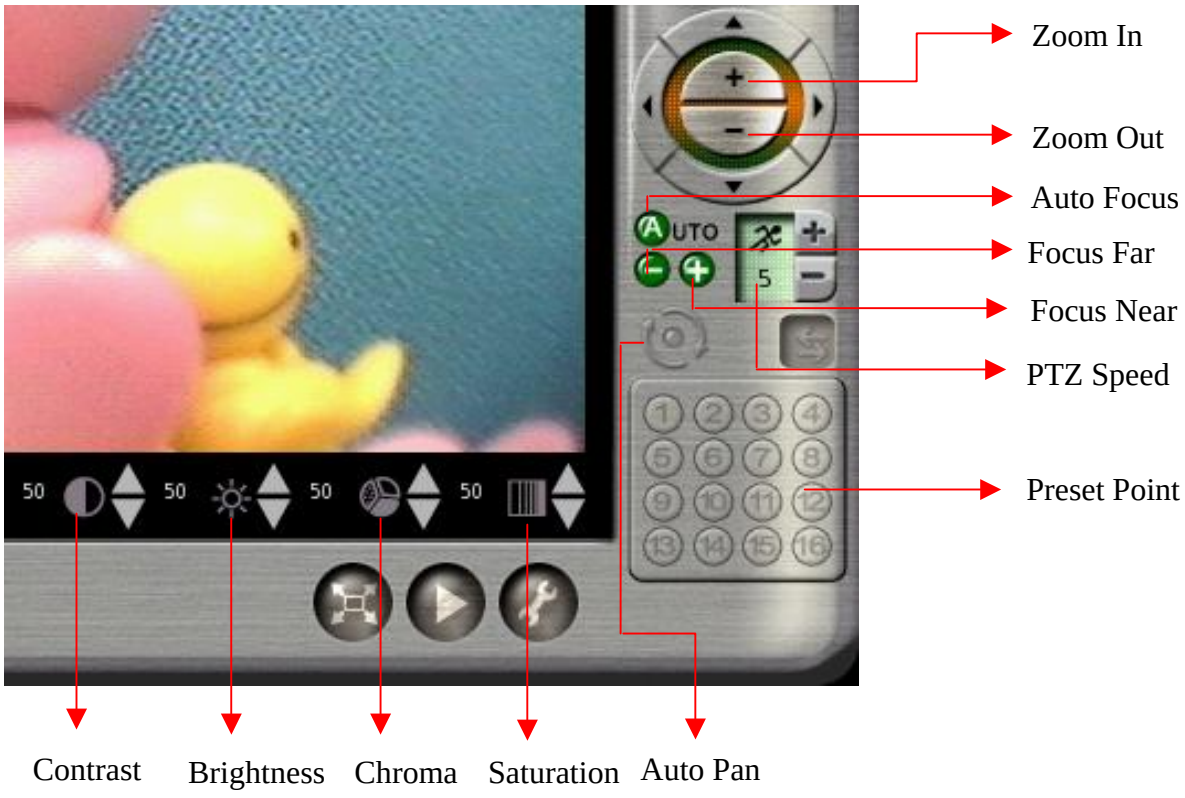
There are 7 kinds of Display mode, 4 splits, 6 splits, 8 splits, 9 splits, 10 splits, 13 splits, and 16 splits. 

The default display mode is 16 splits. The cameras displayed on each split mode can be configured in the system setting menu.

Besides the different kinds of split modes, you can click in a camera image on any split screen to show the full screen of that specific camera as shown in the example below.

In the full screen mode the “Screen Adjustment Parameters” will locate at the bottom of the screen. These parameters are “contrast”, “brightness”, “chroma”, and “saturation”.

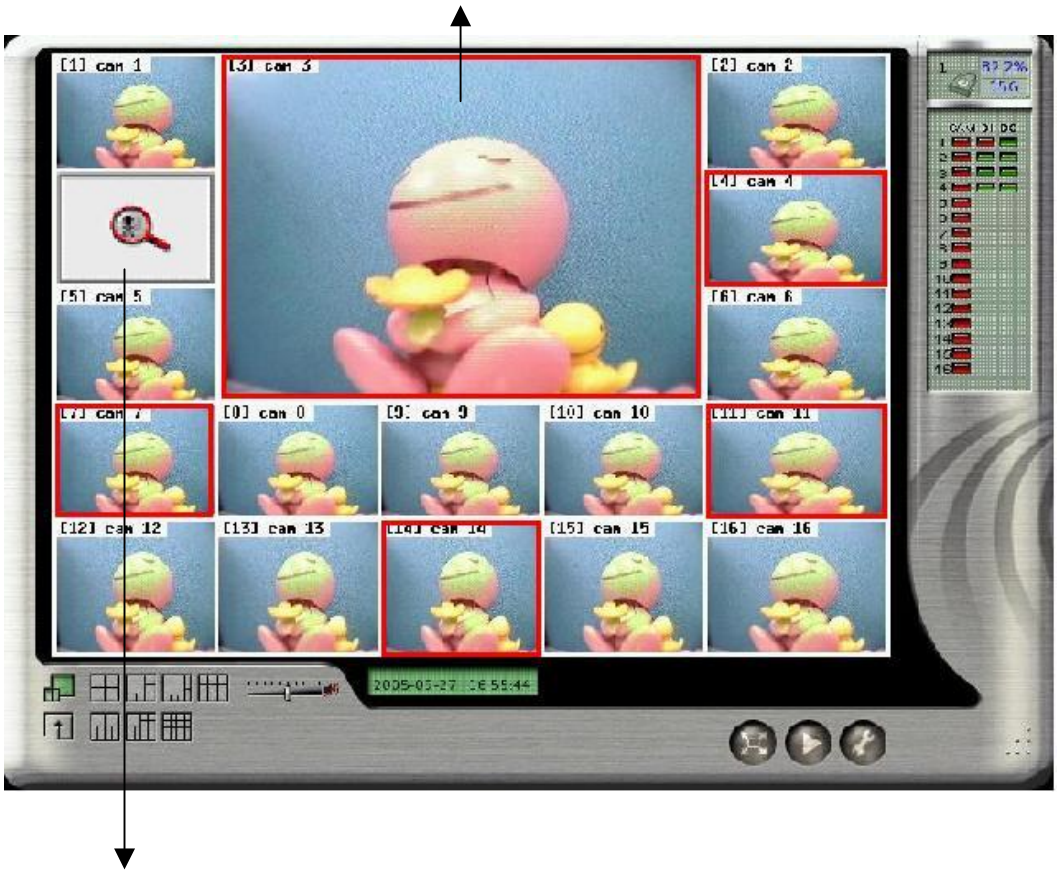
When a Speed Dome is connected and the system is in full screen mode, PTZ control buttons will pop up in the lower right of the screen. These controls include “Zoom in”, “Zoom out”, “Auto Focus”, “Focus Near”, “Focus Far”, and “PTZ Speed”.



3-2 Motion/Alarm to Zoom

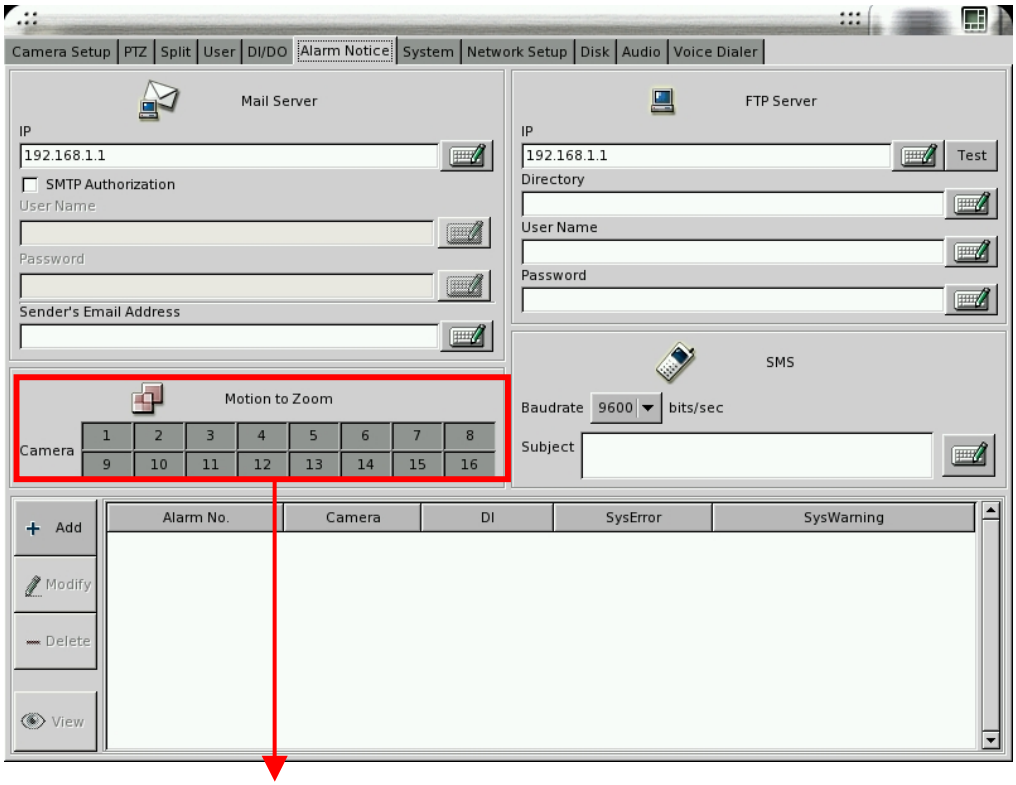
The function of " Motion/Alarm to Zoom" is zooming in the screen when there is any motion or alarm occurring. After clicking icon, it will activate the "Motion/Alarm to Zoom "mode.

Motion/Alarm Zooming Area

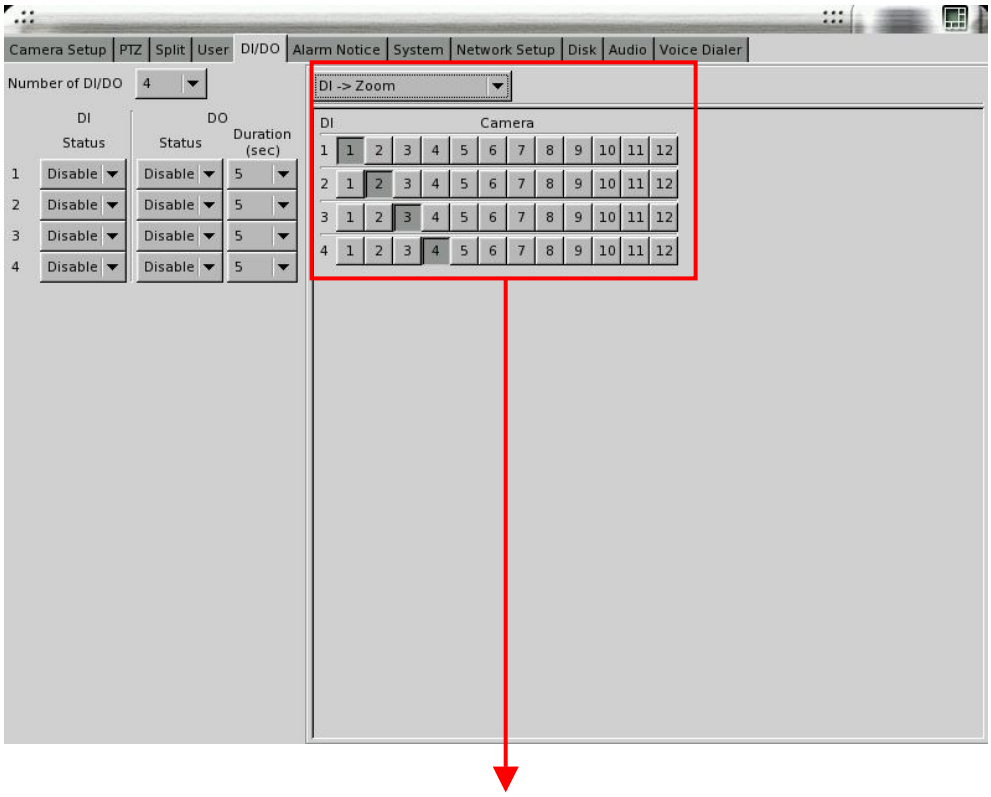


Motion/Alarm Picture

1. At first, you must go to " **Alarm Notice**" in **"System Setting"** menu to set up the channels that you want to enable the " Motion/Alarm to Zoom" function. For the "**Alarm to Zoom**" function, you need to have further set up in "DI/DO" under "System Setting." Click " DI/DO" in " System setting and then select "**DI->Zoom**". Next, click channels which you want to enable "Alarm to Zoom" function and then return to the "**Main Menu**" to click the " Motion/Alarm to Zoom" icon. To note that only **"DI/DO"** and **"Motion to Zoom"** be set can the **"Alarm to Zoom"** function work



Select the channels you want to enable " Motion/Alarm to Zoom"



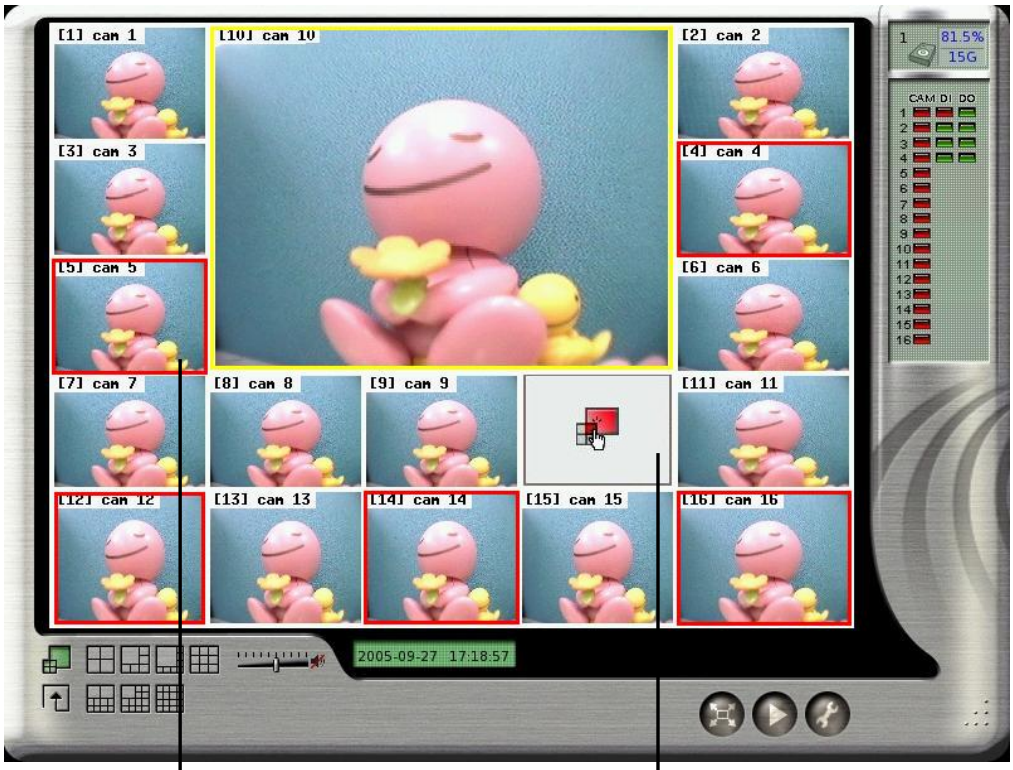
Select the channels you want to enable "Alarm to Zoom" function

2. When the channel which is enabled the “ Motion/Alarm to Zoom” function occurs motion or alarm, its’ screen will be zoomed in the “ Motion/Alarm Zooming” area and the original screen of this channel will be replaced by a “**Motion/Alarm Picture”**. If the channel is not enabled the “ Motion/Alarm to Zoom” function, the screen of this channel will not be zoomed and will not be marked in red frame even there is a motion or alarm in this channel.

3. If there is no other motion or alarm occurring, the current zoomed screen will be continually kept in “ Motion/Alarm Zooming Area”. If yes, the zoomed screen will be kept in “ Motion/Alarm Zooming Area” just for three seconds and will be replaced by the one from any channel waiting for zoomed after three seconds. If there is more than one motion or alarm occurring at the same time, the zooming rule will be as follows,

a. The previous zooming channel will be the first priority for zooming again and others will be marked in red frame to wait for zooming in after three seconds. However, the number of continually zooming the same channel will be limited to three times. After three times, even this channel occurs motion or alarm again, the motion/alarm zooming area will show the screen of other channel. If the motion or alarm in one of the channels waiting for zooming and marked in red frame disappears within three seconds waiting time, this channel will not be zoomed in and the red frame will disappear.
b. If the previous zoomed channel does not have motion or alarm again, the first priority being zoomed is the channel of which number is the smallest. For example, if channel #3 and channel #7 occur motions or alarms at the same time, channel #3 will be zoomed firstly for three seconds and the screen of channel #7 will be marked in red frame to wait for zoomed after three seconds.

4. **Zooming in a specific channel:** You can decide just to zoom in a specific channel. When clicking any channel you want to zoom in, the screen of this channel will be zoomed in to the “Motion/Alarm Zooming” area marked in **yellow** color frame and the original screen of this channel will be replaced by a **“locked picture”**. Then, the screen of other channels, even occurring motion or alarm, will not be zoomed in “Motion/Alarm Zooming Area” and it will be just marked in red color frame. You can click the “ Motion/Alarm Zooming Area” to cancel the “ Zooming in a specific channel”.



Motion/Alarm Zooming Area marked in yellow color

Locked Picture

3-3 Storage Space

On the right side of the main screen, you can find the free space of hard disks. If there are more than one hard disk is connected, it will display the status of each HD every 5 seconds.

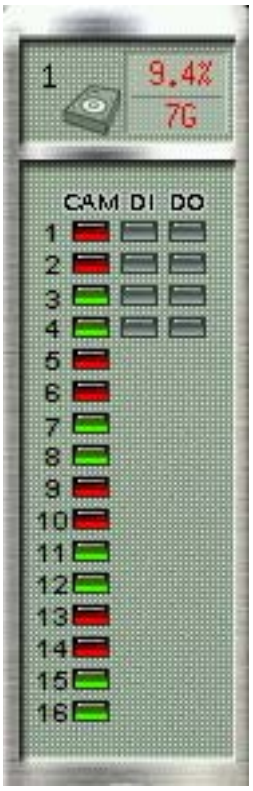
When you start using a new hard disk (for example, a hard disk with capacity 80GB), the percentage of free space will be very close to 100% (e.g. 99%), and the color will be **BLUE**.

However, as recording continues, the available space will diminish. When the remaining available space is less than **4GB**, the display color will change to **ORANGE**. This serves as a warning message that the system will soon enter the **Recycle Mode**; which means, the earliest recorded data will be replaced by the newest recording data. If you would like to keep all the data, this is the time to swap a new hard disk.

If the disk has not been changed and the recording continues, the system will go into **Recycle Mode** when the hard disk free space is less than 1GB. The color of “Hard Disk Free Space” will turn **RED**.

3-4 Recording & DI/DO Status

The first column indicates the recording status of each camera:



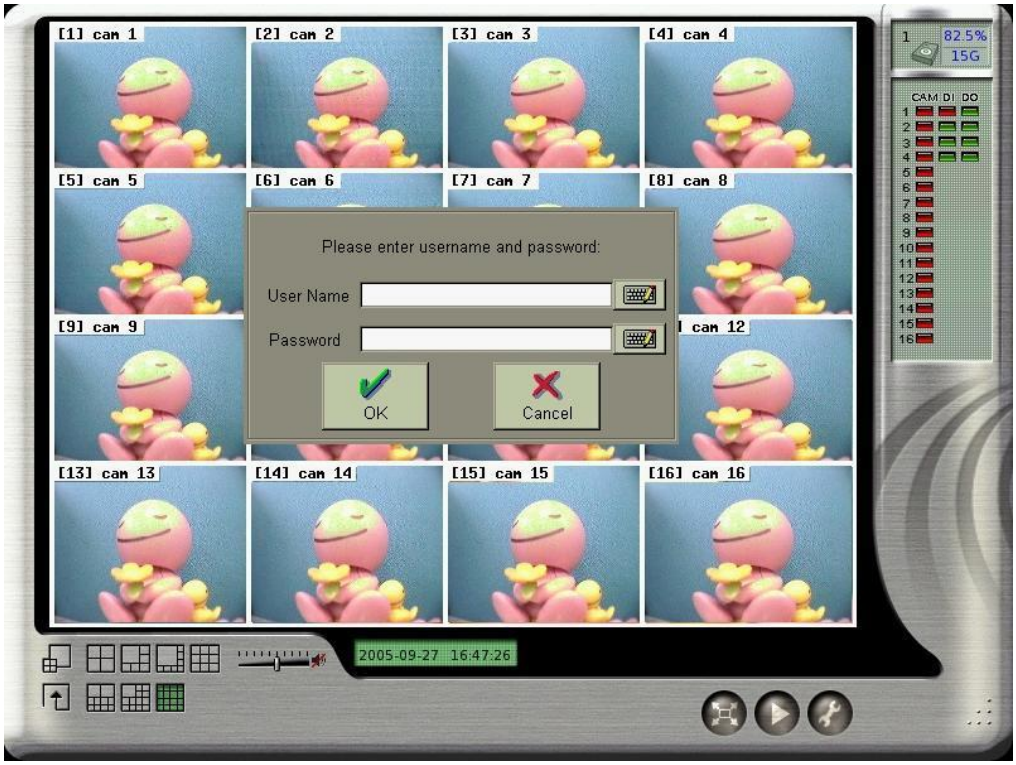
Color	Recording Mode	Status
Orange ( )	Full recording	
Green ( )	Motion-sensor	Motion not detected
Red ( )	Motion-sensor	Motion detected & recording
Gray ( )	No recording	

The second and third column shows the status of each DI and DO device.

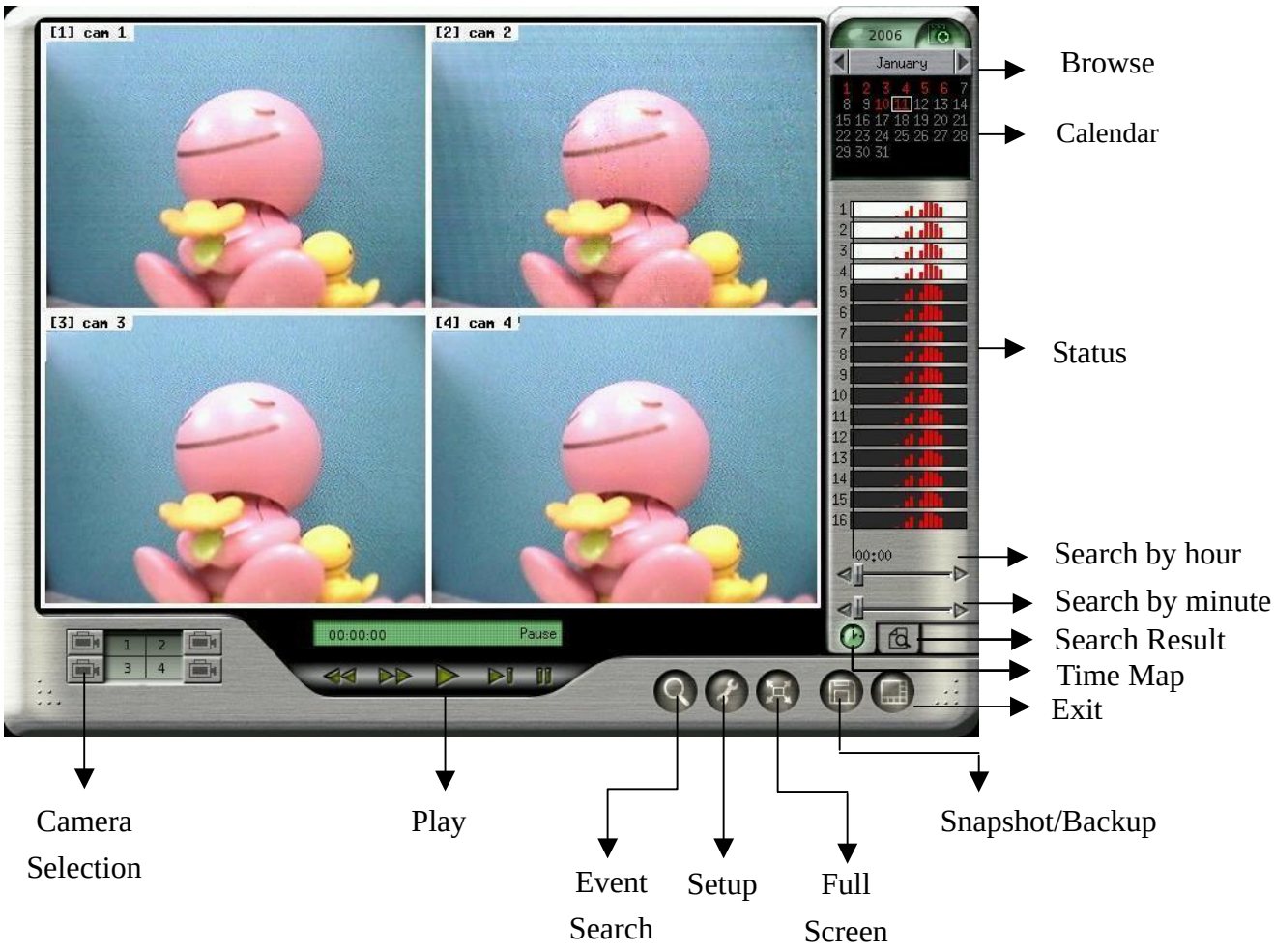
Color	Status
Green ( )	Device not activated
Red ( )	Device activated

4. Playback

Click the playback icon on the main screen to enter playback mode. If “Playback Password Protection” function is enabled (See 4-1 Playback Password Setting), the system will prompt you to enter User name and Password to enter playback mode as following,

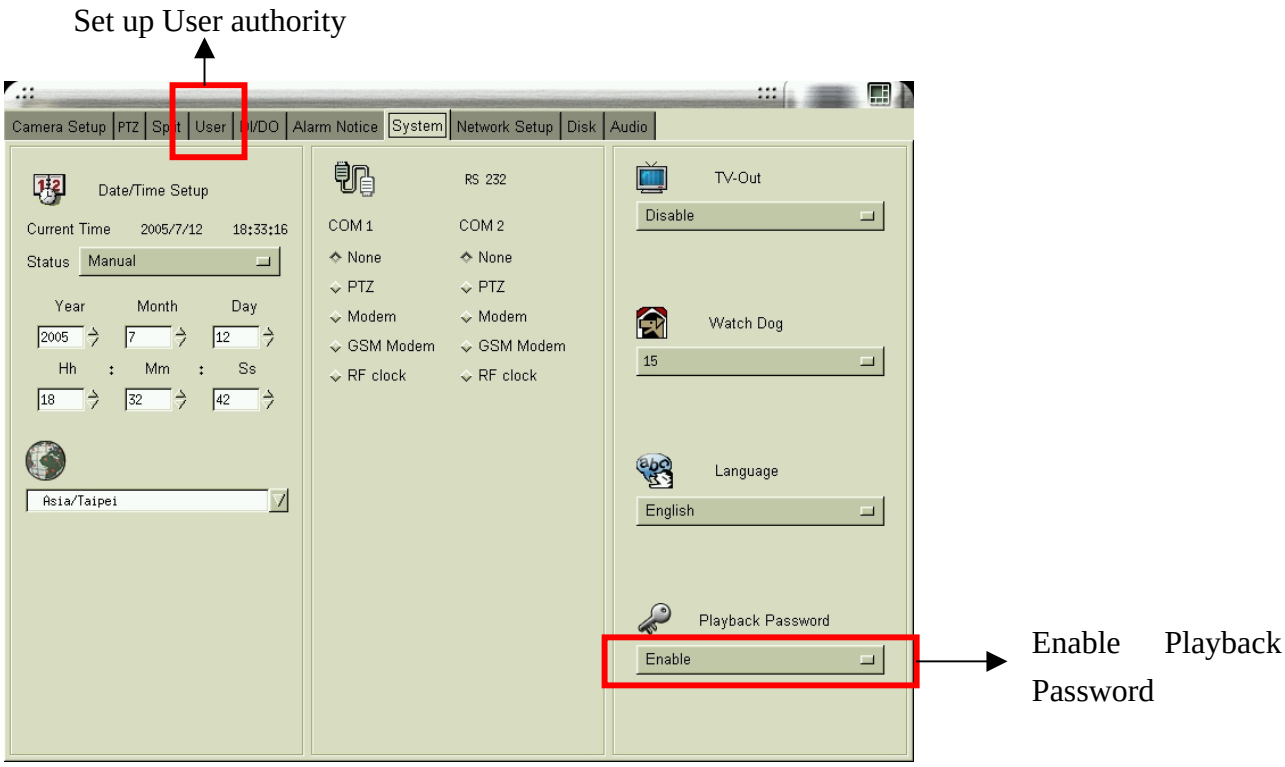


The controls of Playback function are as following,

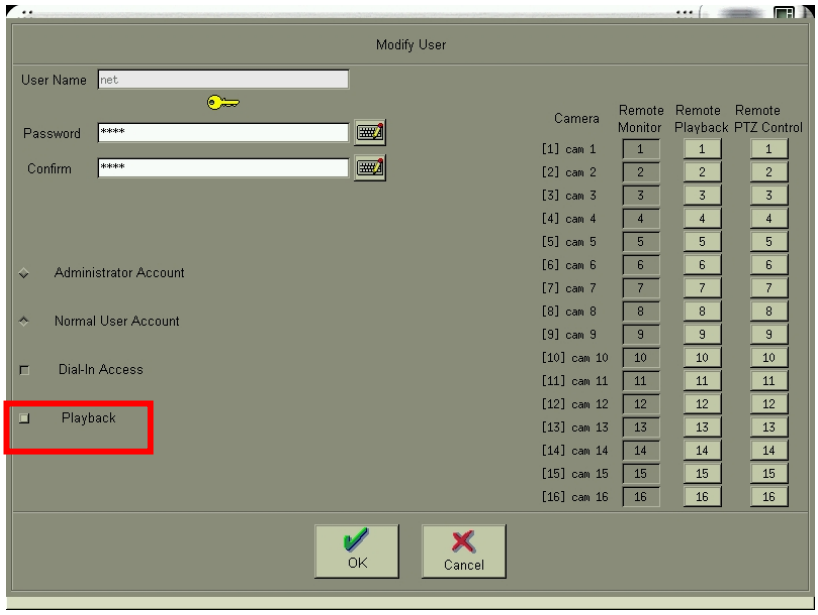


4-1 Playback Password Setting

If you want to activate “Playback Password Protection” function, click in the main menu to go the “System Setting” as follows. Change the “**Security**” from “ **Disable**” to “**Enable**” mode and then click “**Playback Password**”.



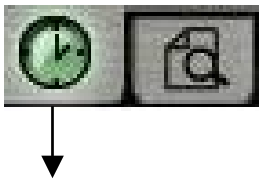
Then, set up the “**User**” authority of playback as follows,



4-2 Search for Recorded Data

This software system provides two modes of “ Search for Recorded Data”. One is “ Search by time” and the other one is “Search by Event”.

4-2-1 Search by Time



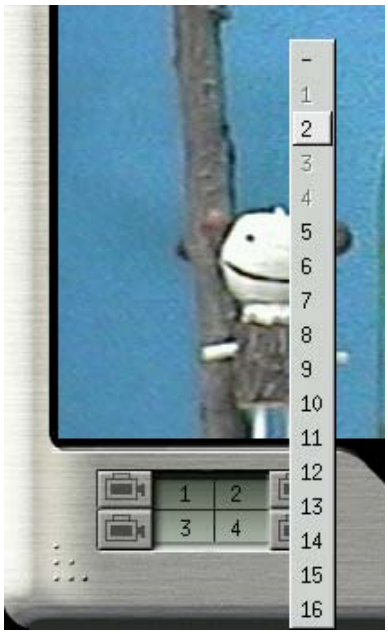
Time Map

When you click the icon of “ Time Map” on the lower right corner of Playback screen, it will show three kinds of time parameters for users to search and jump to the recorded data by time directly including “ Calendar, Hour and Minute”.

First, click on the date of the calendar on the upper right corner of the screen and then select the “hour” and “minute” using the two bars on the lower right corner.

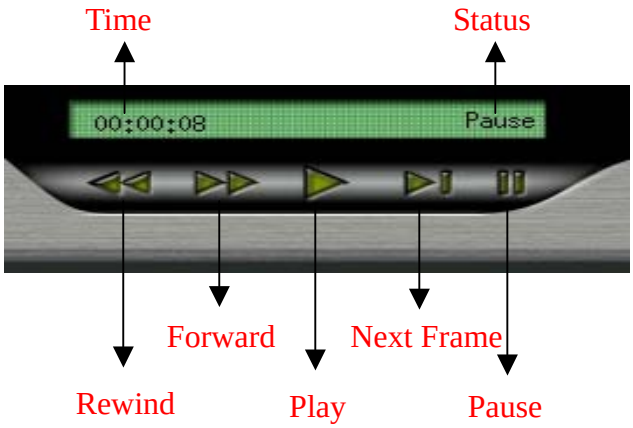
Hour bar

Minute bar



Next, select the cameras for playback using the buttons at the bottom of the screen. You can playback up to 4 cameras at the same time. When you click the camera button, camera numbers 1 to 16 will appear. Select the desired camera to playback. Choose “ - ” if no camera is to be played back on this screen. The color of the selected cameras on the right side of the screen will be in “light blue” background.

Click the Play button to start playback.



Note:

- You can 2×, 4×, 6× forward by clicking Forward button one more time.
- You can 2×, 6× rewind by clicking Rewind button one more time.
- Next Frame allows you to play picture by picture.

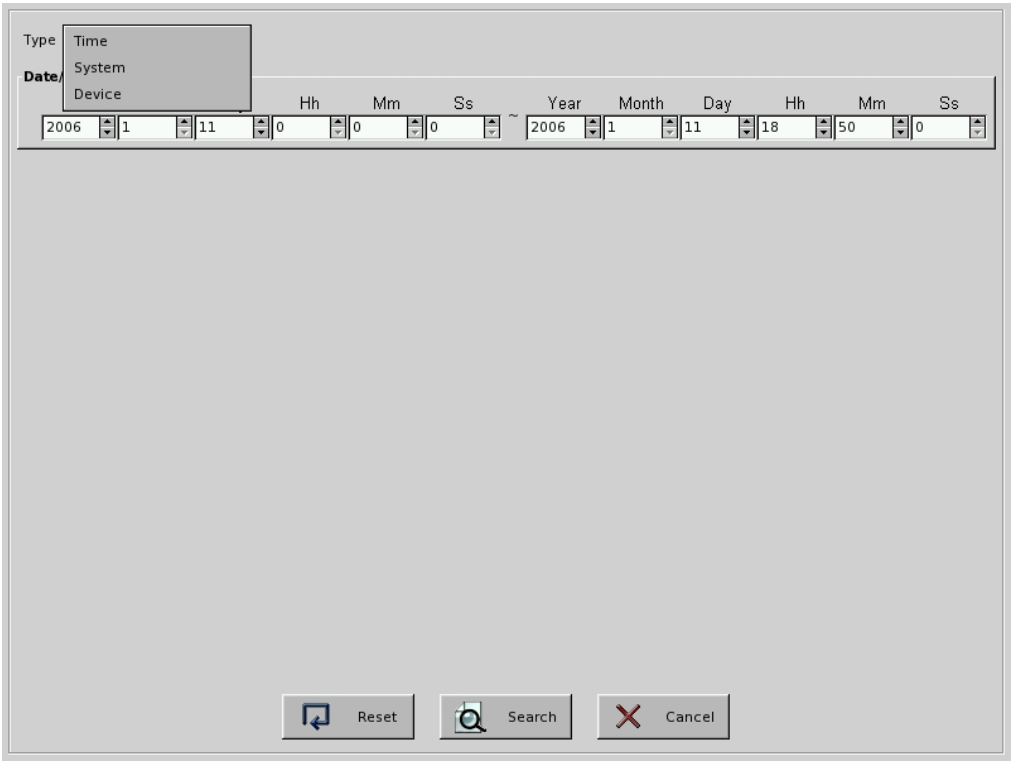
4-2-2 Search by Event

Event Search

Click the " Event Search" icon , it will show the "**Search Window**". There are three kinds of event search modes, " **Time, System and Devic**e".

Search Mode	Description
Time	Search all of the events within the time range you set up.
System	*Search all of the **System** events within time range which you set up by marking the " Time Search" at the same time or *Search all of the **System** events without time boundary by disable the " Time Search".

Device	* Search all of the **Device** events within time range which you set up by marking the " Time Search" at the same time or *Search all of the **Device** events without time boundary by disable the " Time Search".



- **Time Mode:**

Step 1: Select " **Time**" mode from the Search type.

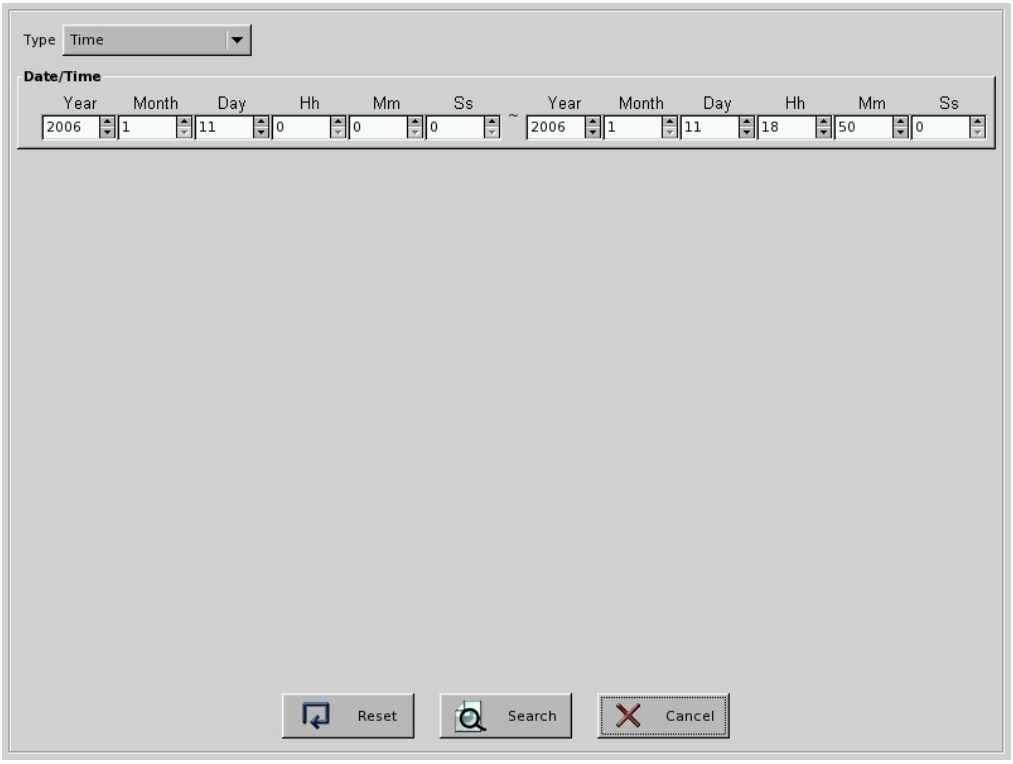
S**tep 2:** Set up the time of **starting point** and **end point** including, Year, Month, Day, Hour, Minute and Second.

S**tep 3:** Click " **Search**" button

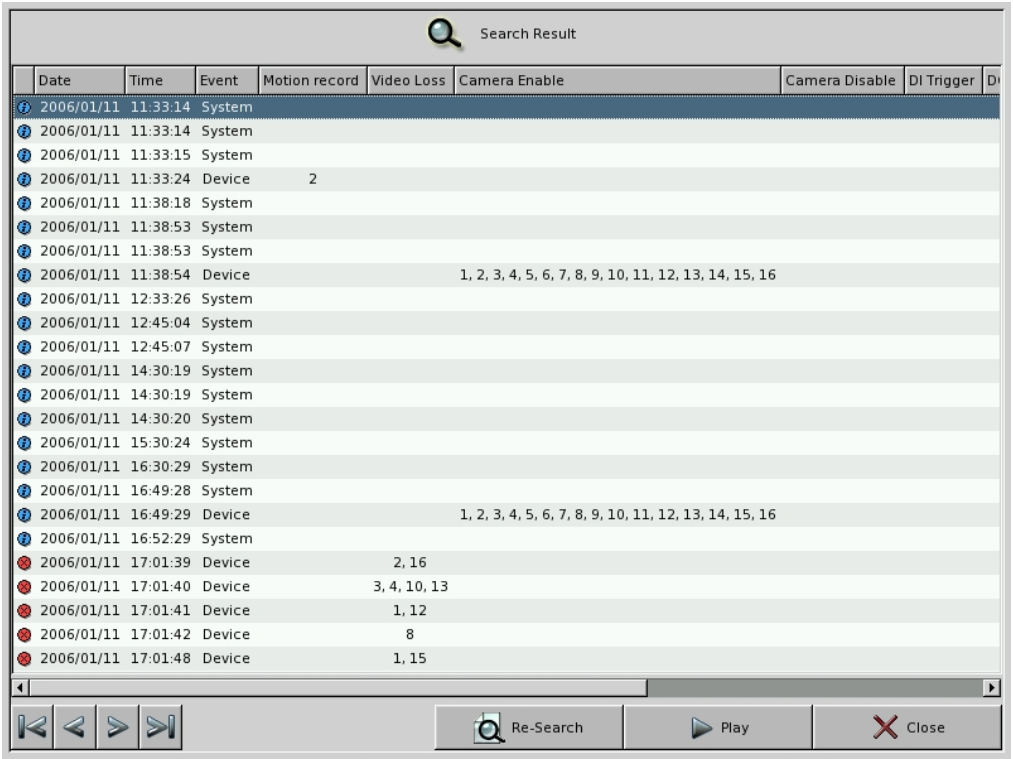
to execute the " Event Search". Click " **Reset** " button

to go back to Default time range. Click "**Cancel**" button

to stop the event search.



Step 4: Then, the system will open the **Search Result Window** and show the **"Search Result"**.



In the Search Result Window of **Time Mode**, there will be 9 information columns for each event log including " **Date, Time, Event, Type, Camera Motion, Camera Video Loss, Camera Enable, Camera Disable and Content**. The columns of **Date and Time** list the event time information. **Event**

column list “System”, “Camera” or “Device” event. **Type** includes “Information ( )”, “Warning( )”, or “Error( )”. **Camera Motion, Camera Video Loss, Camera Enable or Camera Disable** represents the camera with event. The **Content** column makes the description of System event.

It will show 24 event logs in one page each time and you can click one of the “Jump button to go to the event page you want to see.

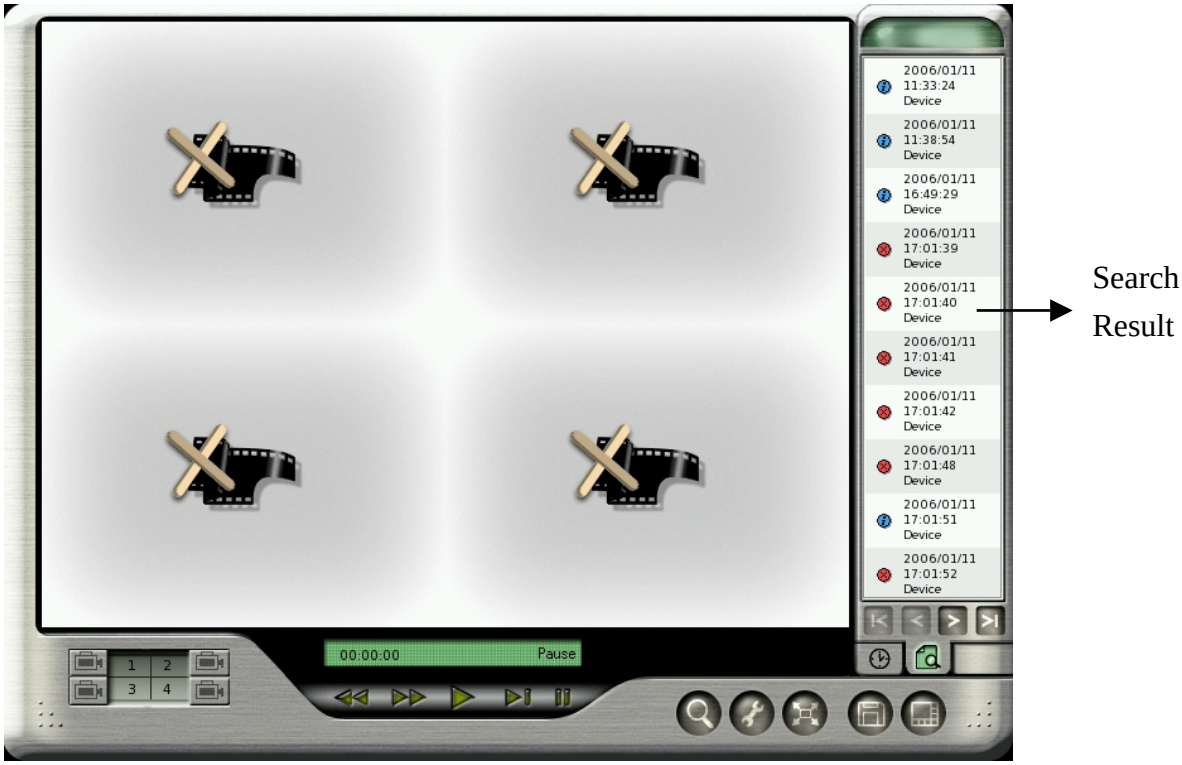
: Jump to the first page of event search result.

: Jump to the preview page of event search result.

: Jump to the next page of event search result.

: Jump to the last page of event search result.

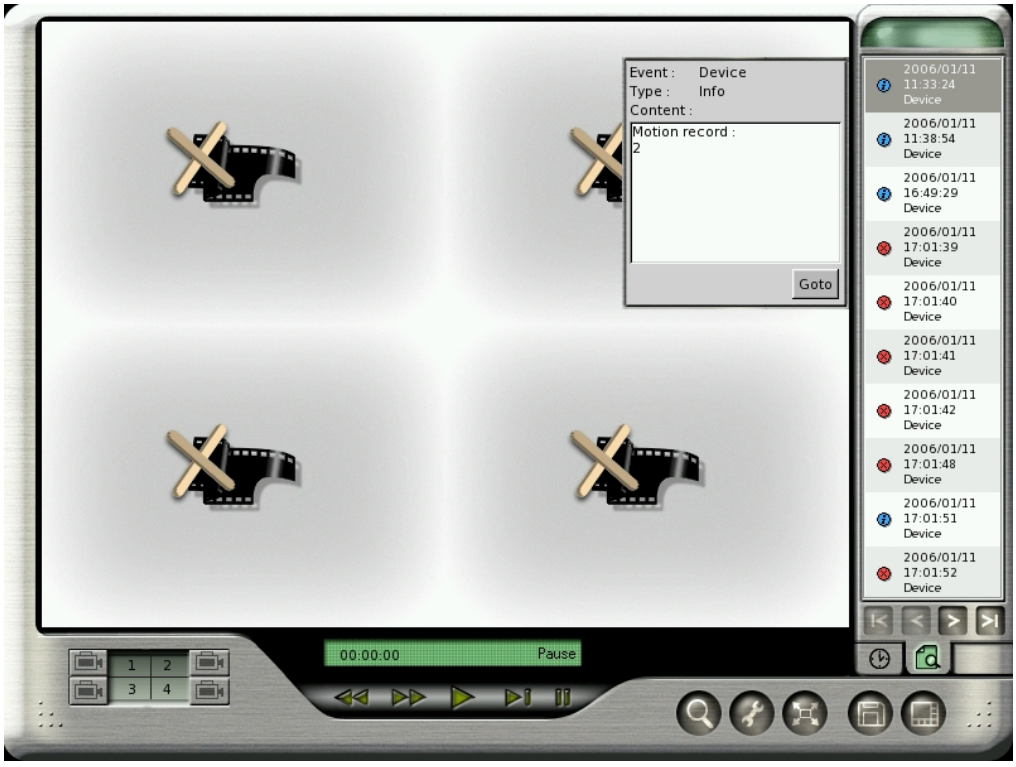
Step 5: Click button. The system will jump to “**Playback Window**” as the following picture. The search result will be shown on the right side of “**Playback Window**”. Or click “Re-search” button and the system will go back to **Search Window**.



Step 6: Select one of the search logs. It will pop up a window on the left side of **Search result** to show the detail information of this log including **Event**, **Type** and detail **Content**. Click "GoTo" button and it will start to play the event video. This software version can provide four channels playback at the same time. If this event just happens in four channels (ex. 2nd, 3rd, 5th, 7th ch) at the same time, the four channel split will just playback these four channel videos. If this event happens in over four channels (ex. 2nd, 3rd, 5th, 7th 9th, 11th ch), you can decide which channel video will be played in the split window by manually setting up the playback channel

. Otherwise, the system will decide the event playback channel priority according to the following rule:

- The first priority of playback channel will be the channel of which number is already in the preset playback channel. For example, Preset playback channel is 1st, **2nd, 3rd**, 4th Ch. The event happens in **2nd, 3rd**, 5th, 7th 9th, 11th Ch at the same time. Then, 2nd and 3rd channel will be the first priority to be played on the split window. The rest of two split windows will play the channel with small number. In this case 5th, and 7th channel will be played in the split channel too. However, 11th Channel will not be played in the split window except you can manually change the playback channel.

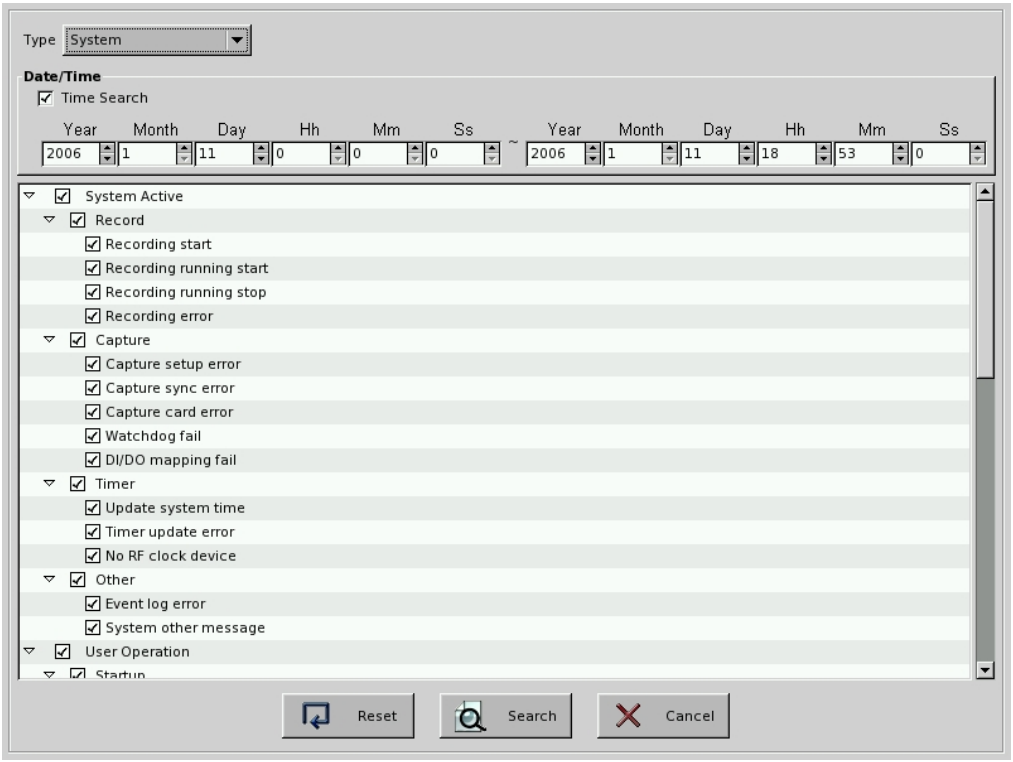


Note:

It will show 10 event logs in one page each time and you can click one of the " Jump button to go to the event page you want to see.

- **System Mode:**

You can search the event by "System" mode and you can also add the "Time Search" condition to narrow the search range. By marking the various System conditions, you can decide the search range.



The following table lists all of the "System Events".

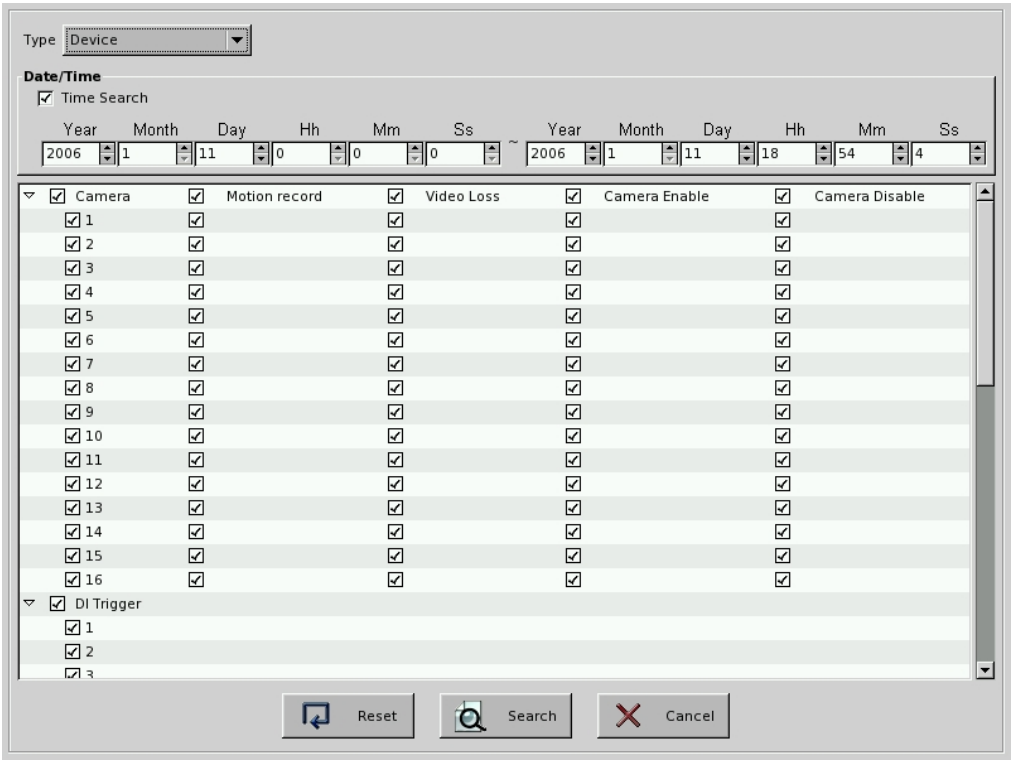
Event Group	Rule
Record	Recording Start
	Recording Stop
	Recording running
	Recording exception
Capture	Capture setup error
	Capture sync error
	Capture card error
	Watchdog Fail
	DIO mapping Fail
Timer	Update time to RF clock
	Update time to RTC clock
	Timer update error
	No RF clock device

Other	Event log error
Startup	Enter play recorded video Mode
	Enter disk tool menu
Monitor	Enter setup mode
	Enter playback mode
	DVR online
	Current Timezone
	Detect camera count error
	System Shutdown: Disk error detected
Setup	System Setup change
	Max user count limit is 128
Playback	Enter monitor
	Enter backup
Storage	No disk found
	Disk error
	Recycle disk
Alarm	FTP alarm
	E-mail alarm
	SMS alarm
	Voice Dialer
Remote	Setup change by remote user
	Remote Setup Fail
	Remote Setup get Fail

Refer to the **Step 1 to Step 6 of Time Mode Search to play the event video**. The main different between System Search mode and Time Search mode is **the Step 4** "the **Search Result** window". In the Search Result Window of **System Mode**, there will be just 5 information columns for each event log including "**Date, Time, Event, Type** and **Content**".

- **Device Mode:**

You can search the event by "**Device**" mode and you can also add the "**Time Search**" condition to narrow the search range. By marking the various **Device conditions,** you can decide the search range



The following table lists all of the "**Device Type**"

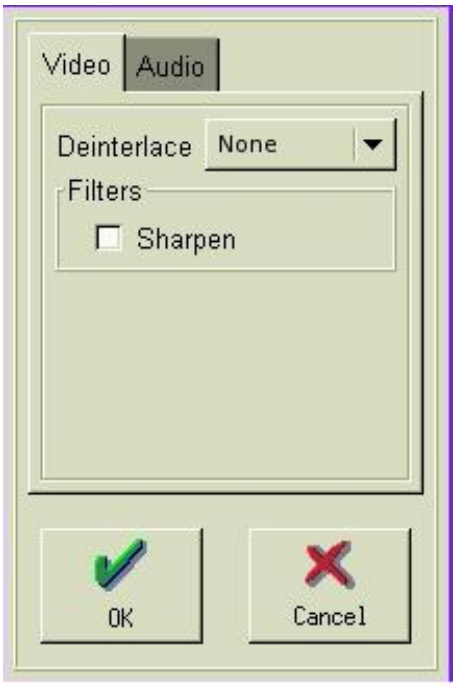
Device Event	Event Type
Camera	Camera Motion
	Camera Video Loss
	Camera Enable
	Camera Disable
DI	DI is activated or not.
DO	DO is activated or not.

Refer to the **Step 1 to Step 6 of Time Mode Search** to play the event video.

4-3 Audio/Video Playback Configuration

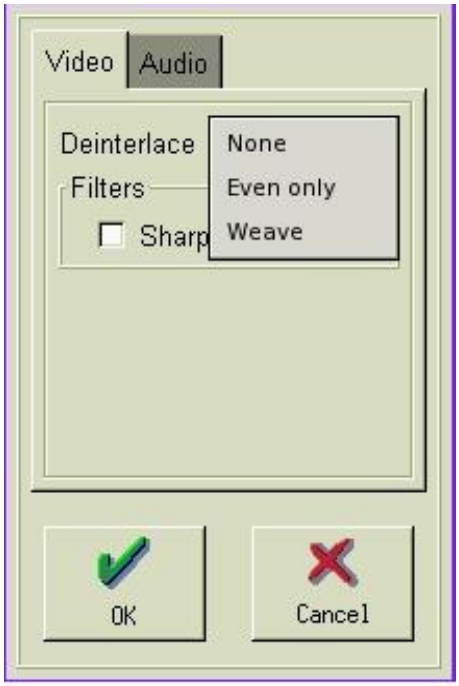
Audio/Video
Configuration

When you click audio/video configuration icon , it will show up the following dialog box. It provides you with the audio and video playback configuration.



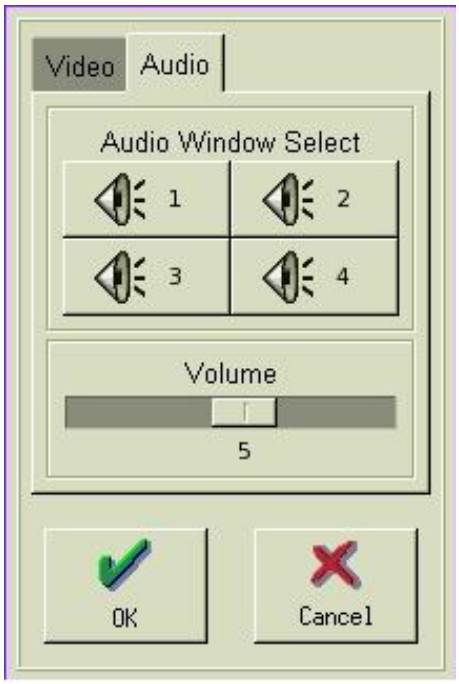
4-3-1 Video Playback Configuration

In the Video configuration, we have two kinds of "**Playback Video Enhancement**" modes- "**De-interlace**" and "**Sharpen**" to provide you with the better playback video quality. You can enable these two modes at the same time. In De-interlace mode, you can select " **Even only**" or "**Weave.**" Each one has different enhancement on playback video quality. You can select the one you prefer to fit your quality requirement.



4-3-2 Audio Playback Configuration

In the Audio Configuration, it allows you to set up the channels you want to playback with audio in full screen.



Choose the audio channel (No.: 1~4) and volume (No.: 0~9) you would like to playback. Then click “OK”, the selected single channel with audio will display in full screen.

Note:

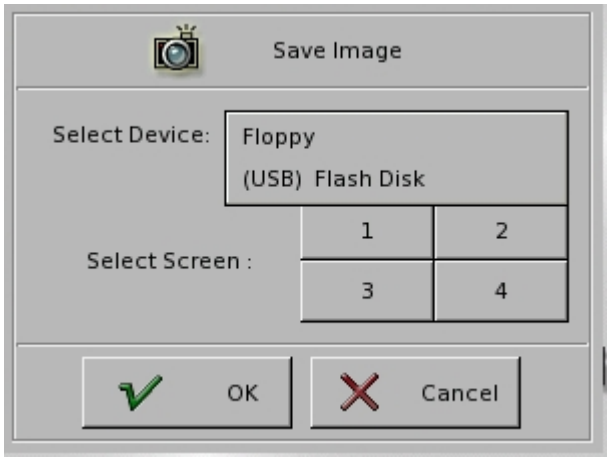
- It just supports one audio channel.

4-4 Snapshot/Backup

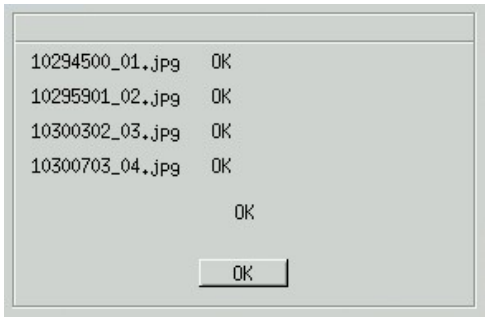
Snapshot/Backup

4-4-1 Snapshot and save to floppy

It is possible to save the selected single image to a floppy or a USB storage device (this selection shown after plugging in USB storage device). Click the button and select **Snapshot**. The following dialog will appear:

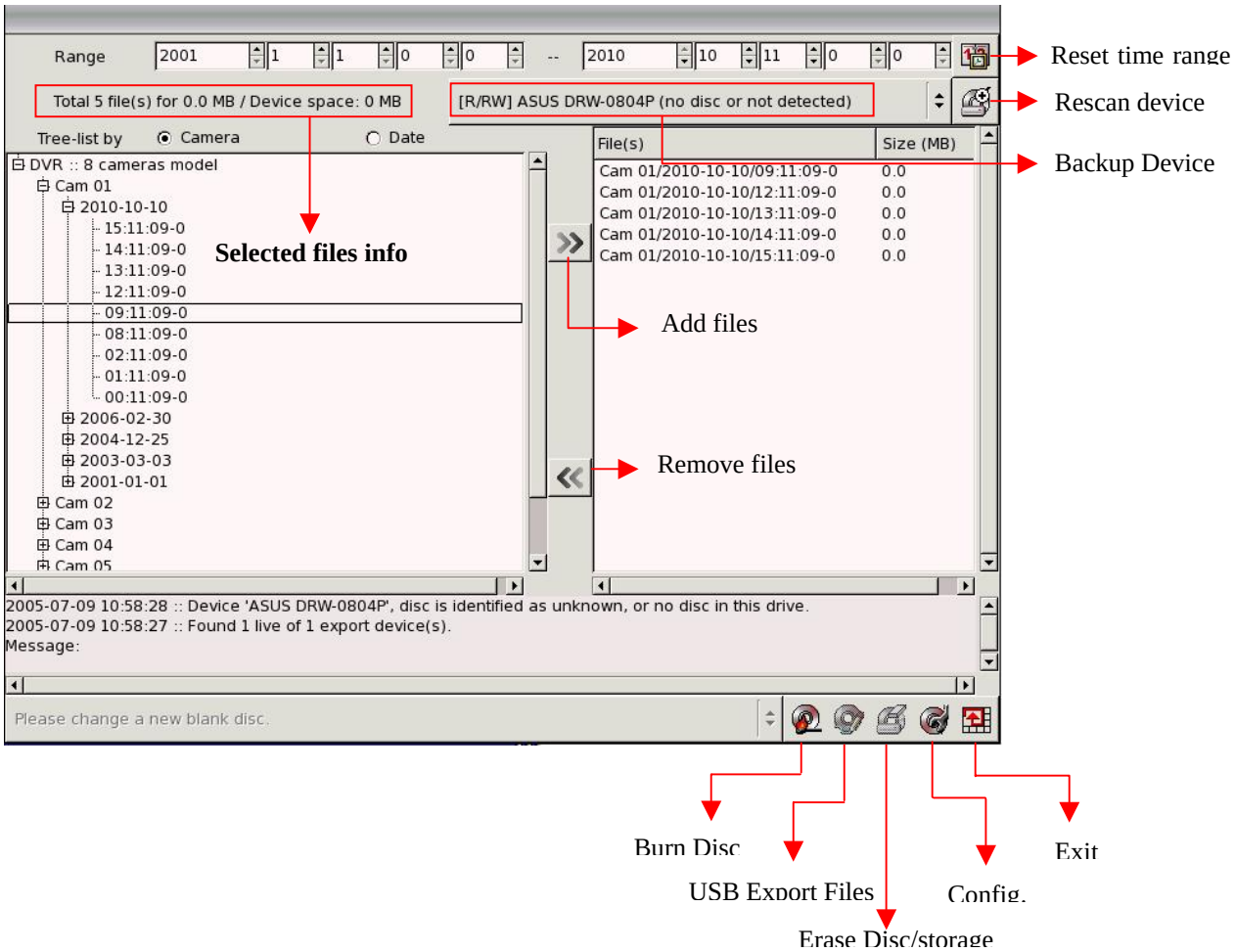


Choose the screens you would like to save to the floppy or USB. If you would like to save single images of all the 4 screens as JPEGs, select all numbers and click “OK”.



4-4-2 Backing up Video Files

You can copy the video files from hard disk to burning device such as CD-R/W or DVD-R/W or USB external storage media, such as USB pen drive or USB Hard Disk. Click the button and select **Export** to see the following screen:



4-4-2-1 Backing Up Procedures

1. Before you start to back up the video files, make sure that the back up program has detected the IDE/USB burning devices or USB storages. If not, please check if the device is installed properly and click to rescan the device. After that, the device still can not be detected, please verify if the device is ok.
2. When you put the disc to burning device or plug the USB storage device to the DVR, click the "**Backup Device**" or "**Rescan Device**" to get the device information. The row of "**Selected File Info**" in the upper left screen will show the device space for backing up.
3. **Select the files to back up:**

   Expand the hard drive directories in the left of the screen. Drag the mouse to select the recording files for backup (by Year, Month, Date).
4. **Erase (Blank) the Disk:**

   If you use the burning device such as CD-R/W, DVD+R/RW or DVD-R/W to back up the files, you need to check whether the disc is used. If yes, the icon will lighten after you insert the disk to the recorder.

   a. Click on to start the erasing process.

   b. After it is done, the Message area will display "Done".

Note:

- If CD-R is used, you do not need to execute this process.

If the Backup device is USB storage and there are already files in it, the icon will also lighten. You can decide if you want to click to delete these files.

5. Click to add these files to the right side of the screen for burning or copy to the burning device or USB storage. The total size of the selected files should not exceed 600MB.
6. You can browse the other directories (dates) to continue the file selection.
7. If the backup device is burning device and the blank disc in the burning device can be detected, the Burn Disc icon will lighten when you Add the "Selected files" to the right column of the screen for backup. Click this Burn Disc icon and the system will

start to convert the selected files into standard ISO 9660 format files (Make ISO), and burn the files to the disc.

8. If the backup device is USB storage and the device space is enough to back up the selected files, the Export Files icon will lighten when you Add the “Selected files” to the right column of the screen for backup. Click this icon and the system will start to copy the files to the storage.
9. If problems arise while backing up the files, it might be due to the reasons indicated below:
   - The blank CD or DVD disk is in bad quality: Replace with a better quality disk.
   - The CD-RW or DVD+R/RW or DVD-R/RW has been used too many times: Replace with a new disk.
   - The burning device cannot process high-speed burning: Reduce the burning speed.
   - The blank disc does not support high-speed burning: Reduce the speed, or replace with high-speed compatible disk.
10. You can click Configure icon to set up the “ Burn Disc, “ Export File” and “ Erase Disc/ Storage”.

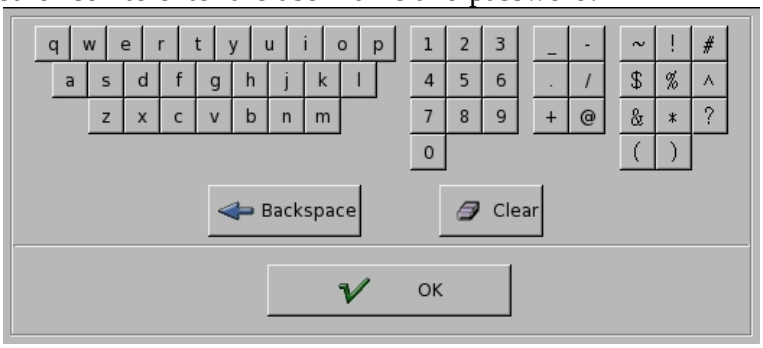
Note:

- **Not support Pioneer DVD+R**
- **Not support Transcend USB Pen drive.**
- **USB storage devices only support FAT16/FAT32 format.**
- **There may be compatible issue between USB external hard drive and motherboard.**

5. System Settings

Click the icon on the main screen to go to the system settings page.

Click on the keyboard icon to enter the user name and password.

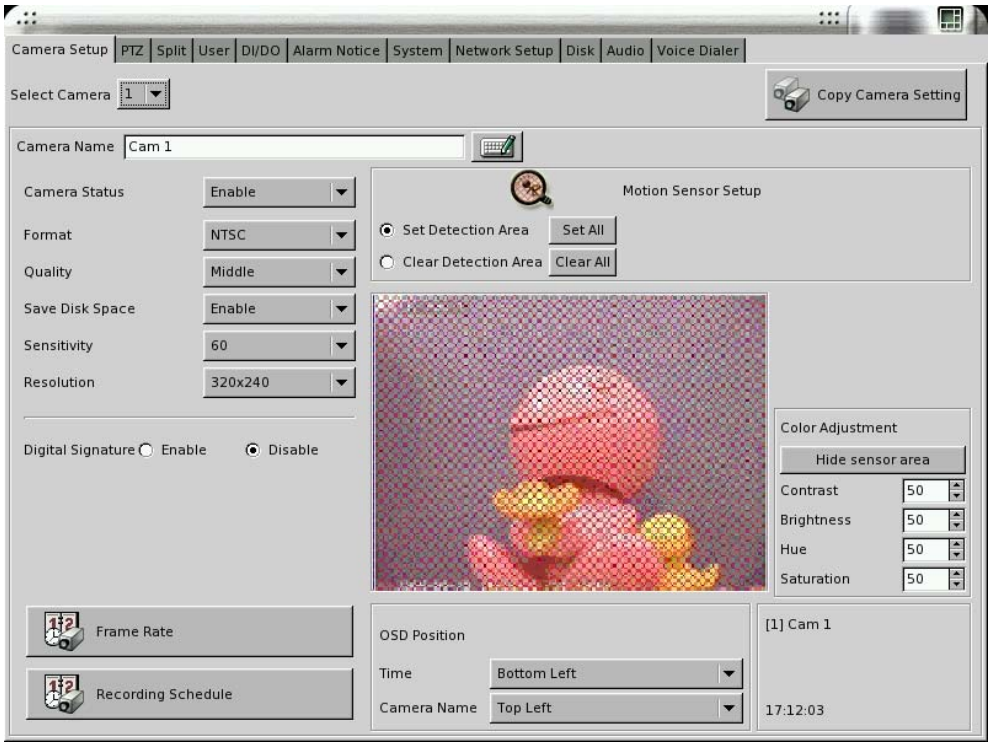


To exit the System Settings, click on the upper right corner in the “System Settings” screen.

Note

- Preset user name: **admin**
- Preset password: **1111**

5-1 Camera Setup



1. Select the desired camera for setup.
2. **Camera Name**: Use the “keyboard figure” on the right of “Camera Name” field to enter the description for the camera.
3. **Camera Status** (Disable/Enable/Hide): If the channel is not connected to a camera, set “Disable”. If it is connected, set “Enable”. If you do not want the camera image to be showed on the main screen, set “Hide”.

Note:

- If a camera is “hidden”, the video is still recorded in the hard disk.

4. **B/W Camera**: If “black&white” camera is used, please click the “B/W Camera” icon.
5. **Video Format** (NTSC/PAL/SECAM): The video format of 16 cameras must be the same. Therefore, if you change the video format of any camera, all the rest cameras will be changed to the same format automatically.
6. **Quality** (Poor/ Low/ Middle/ High/ Best): You can adjust the recording quality. The higher

the quality setting, the more hard disk space will be consumed.

7. **Save Disk Space** (Enable/Disable): The setting allows you to save disk space.
8. **Sensitivity** (10/20/30/40/50/60/70/80/90/100): You can set the sensitivity of motion detection during recording. It is recommended to adjust the setting to 100 in order to prevent any data loss. However, in some special conditions, the system continues to record even when no motion has occurred. This will result in a considerable amount of useless data being recorded. In such a case, it is recommended to lower the sensitivity setting to avoid wasting hard disk
9. **Digital Signature** (Enable/Disable): The setting allows you to encrypt digital signature (watermark) to the video content.
10. **Resolution** (320x240/640*240/640x480): You can adjust the recording resolution. The higher the number, the better the quality. However, the higher quality setting will consume more hard disk space.
11. **Frame Rate** (0.2/0.5/1/2/3/4/5/6/7/8/10/12/15/20/25/max): You can adjust the recording frame rate for fully recording mode and event recording mode. The higher the number is, the higher frame rate it will be recorded. However, with higher frame rate, the hard disk space will be consumed faster.

    10-1 Fully Recording

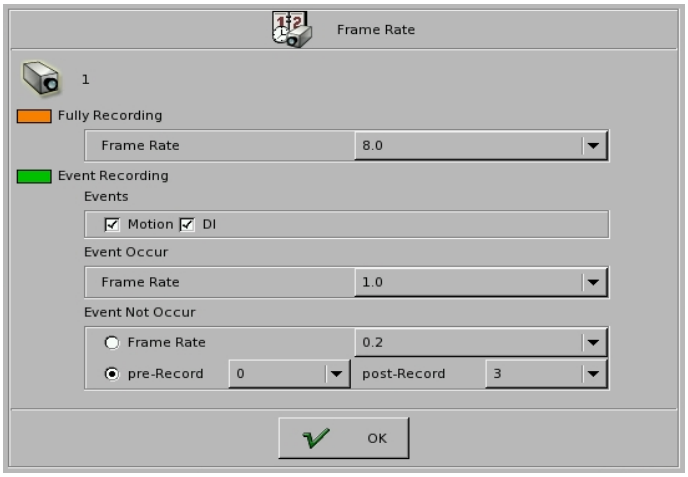
    You can set frame rate for fully recording mode.

    10-2 Event Recording

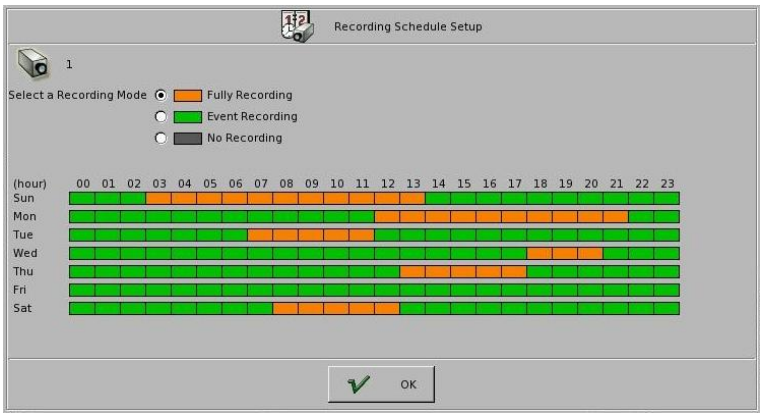
    (1) Events (Motion/DI): allow you to choose events that you would like to record.

    (2) Event Occur: allows you to set recording frame rate when event occurs.

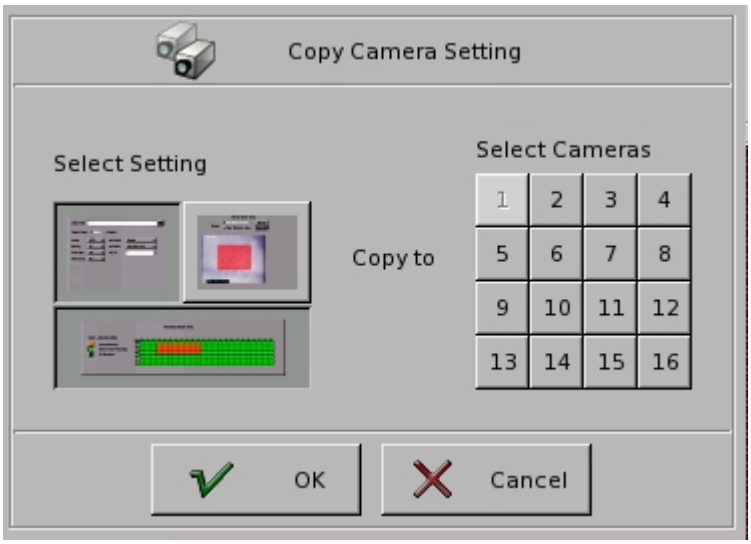
    (3) Event Not Occur: allows you to set recording frame rate when event does not occur. There are two options to select. One is “pre/pos Recording and the other one is “Low frame Rate recording. For the pre-Record setting (0/1/2/3/4/5/6/7/8/9/10) is to record a certain seconds before an alarm happens. And post-Record setting (0/1/2/3/4/5/8/10/15/20) is to record a certain seconds after an alarm happens.



12. **Recording Schedule**: Refer to the Recording Schedule Table below. There are 7 rows and 24 columns in the schedule table, which represents 7 days and 24 hours.
    There are three recording modes:
    - Full recording.
    - Motion sensor recording
    - No recording



13. **Copy Camera Setting**: After finishing the camera setup for one camera, you can click the "Copy Camera Setting" button, located on the upper right of the "Camera Setup" screen, to copy the setting of this camera to other cameras. This saves time and effort. The following dialog will appear. Click the setting area you would like to copy (Refer to the three "areas" below), and then click the cameras located on the right of the screen and click "OK".



14. **Motion Sensor Setup**: This is used to set the motion sensor area.
    14-1 Method One

    (1) Click

(2) Select “Set Detection Area” and use the mouse to drag an area to be detected.

(3) You can set many detection areas by dragging mouse again.

14-2 Method Two

(1) Click

(2) Select “Clear Detection Area” and use the mouse to drag a non-detection area.

(3) Drag the mouse again to set more non-detection areas.

15. **Color Adjustment:** Here you can adjust Contrast/ Brightness/ Hue/ Saturation. The “Hide Sensor Area” setting is to help you examine the adjustment.
    Color Adjustment function is also provided in the one channel monitor mode. That means user also can adjust color in single monitor mode except that “ Administrator “ enables “Hide Color adjust” in “ **System”** page under “**System configuration**” for security concern. (Please refer to the Chapter 5-7 for “**System**” setting).

16. **OSD** (On Screen Display) **Position**: you can select where the “time” and “camera name” will be displayed in the image in live view. There are four positions to choose from: Top Left, Top Right, Bottom Left and Bottom Right.

5-2 PTZ

To make the PTZ camera function correctly, please follow the instructions below:

1. Connect the PTZ to RS232 port (via RS485-RS232 converter).
2. Refer to Chapter 5-7-2 to assign “PTZ” to the RS232 port you connected.
3. Refer to the user manual of PTZ to setup the protocol, baud rate and ID.
4. Select Camera: please select the correct camera number which has PTZ function.
5. Status: set to ”Enable”
6. Model, ID, and Baud Rate: set the ID the same as the PTZ camera.

You can control the PTZ camera using the control panel in this page.

: Focus near

: Focus far

: auto focus

Preset function:

1. Select p1reset point 1.
2. Move the PTZ camera to the position 1 using the panel.
3. Click “save”.

4. Select other preset points and follow the same procedure to set up.
5. Totally we support 128 preset points.

Auto-Pan function:

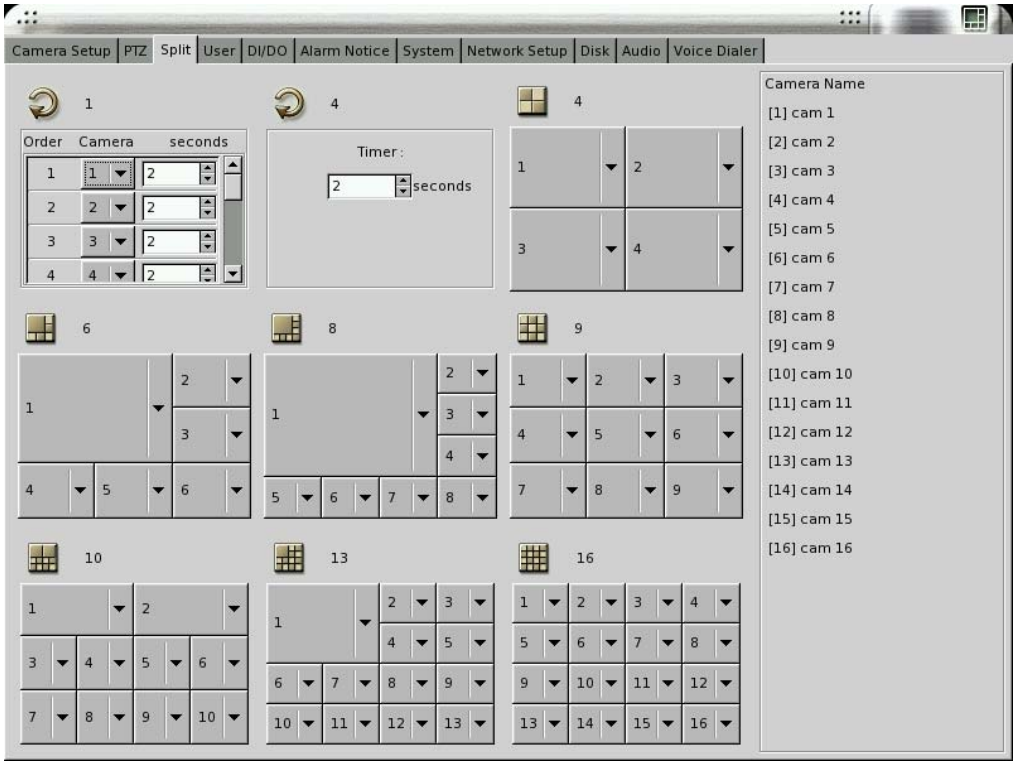
1. Click “Set Pan Start”
2. Move the PTZ camera, the PTZ will remember the path.
3. Click “Set Pan End”

Note:

- Preset and Auto-pan function is different from protocol to protocol. The above example is given using Pelco-D protocol for example.

5-3 View Setup

Clicking the “Split” tab will display the view setup screen as following.



1. There are 7 kinds of Display mode, 4 splits, 6 splits, 8 splits, 9 splits, 10 splits, 13 splits, and 16 splits.

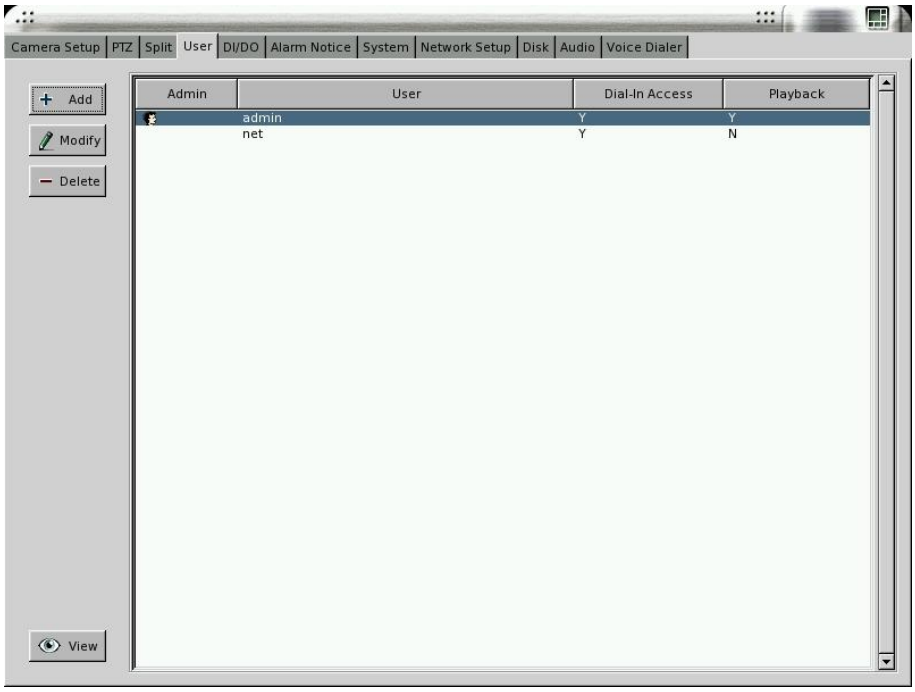
   Click the “small block” on the split screen, then you can modify the camera shown on each split screen. An example for the description of the all cameras when doing the view setup is located on the right side of the table.

2. Sequencer Setting

   There are 1 channel and 4 channel sequencer modes. For the one channel sequencer mode, you can set up the desired sequencer order and duration (up to 300 seconds). For the four channel sequencer mode, the display format is 4 spilt and you can set up its sequencer duration.

5-4 User Account Management

The **User Account Management** function allows different user to login the system using different user name. To start using this function, click on the **User** icon.



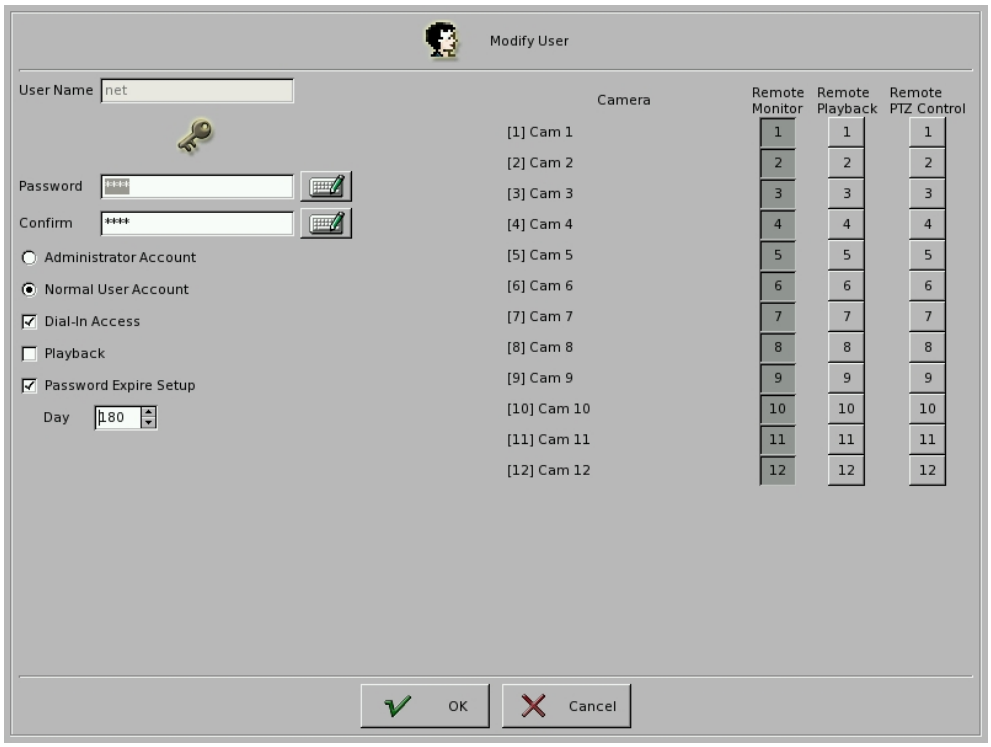
There are 2 system preset accounts. The user names and passwords for these two accounts are as follows.

- Username: "**admin**"; Password: "**1111**" is for the system management account. This account cannot be deleted.
- Username: "**net**"; Password: "**1111**" is for the normal user account. This account can be deleted.

To see more details of the account information, click **View** on the bottom left of this screen.

[Add User Account]:

Click “Add” icon to add new user accounts as screen below.



- Enter the name and password for the new user.
- Administrator Account/Normal User Account: Only administrator account can enter the system setup menu to change the settings. Normal User accounts are used for remote login only.
- Dial-In Access: This option is to enable/disable the user to dial into the DVR, i.e., to access the system through modem.
- Playback: Authorize user the function of playback.
- Password Expire Setup: This is the notification of password expiration. The time setup range can be 1~365 days. When the password expires, the following dialogue will appear:

- Remote Monitor/Playback/PTZ Control: You can define the authorization of each user to use remote functions.

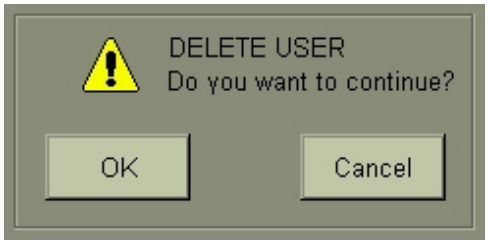
[Modify User Account]

Click “Modify” icon to modify the existing user account.

The operation is similar to that of the “Add User Account” above.

[Delete User Account]

Click “Delete” icon to delete the user account. A screen will display as follows.



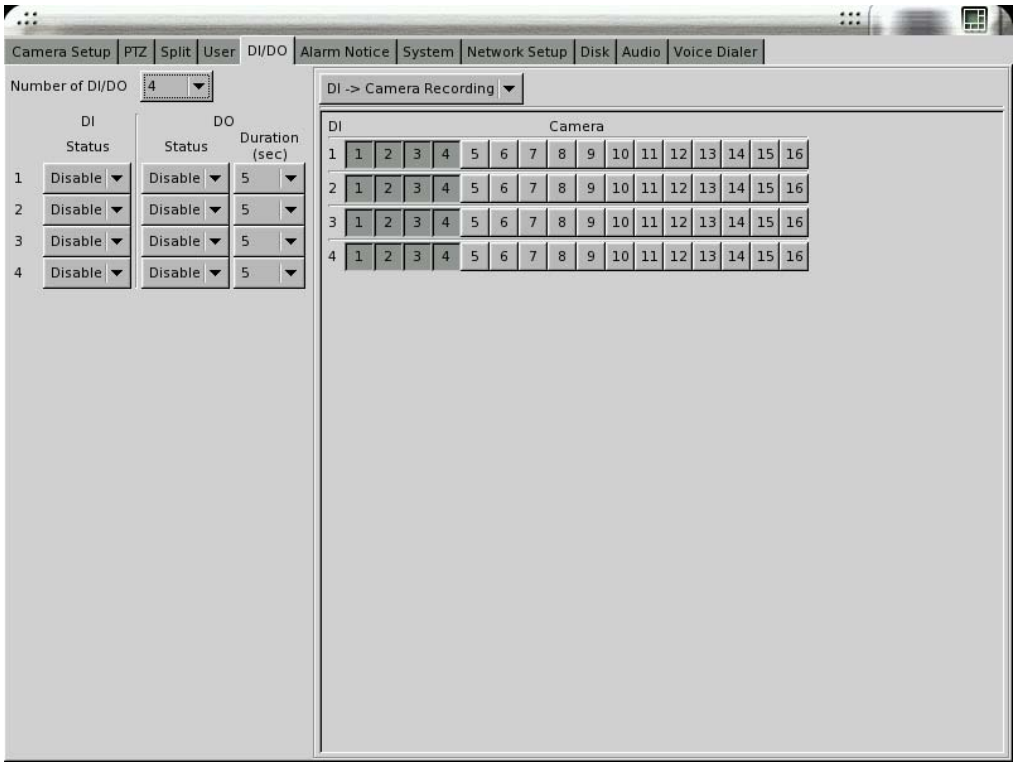
Click “OK” if you would like to delete this user account.

Note:

- The preset user “admin” cannot be deleted.

5-5 DI/DO

Click on the **DI/DO** icon and select the total number of DI/DO installed on your system to see the following figure:


Camera Setup
PTZ
Split
User
DI/DO
Alarm Notice
System
Network Setup
Disk
Audio
Voice Dialer
Number of DI/DO
4
DI
Status
DO
Status
Duration (sec)
1 Disable Disable 5
2 Disable Disable 5
3 Disable Disable 5
4 Disable Disable 5
DI -> Camera Recording
DI
Camera
1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
4 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

[DI Status]

Choose Disable, NC, or NO according to your DI device (e.g., photo sensor).

- Disable: Disable the DI function.
- NC (normal closed): The signal loop is closed under normal conditions. When the loop becomes open, DI will be triggered until the loop becomes closed again. In other words, if the loop keeps on open for a period of time, DI will keep on triggering in that time interval.
- NO (normal open): The signal loop is open under normal conditions. When the loop becomes closed, DI will be triggered until the loop becomes open again. In other words, if the loop keeps on closed for a period of time, DI will keep on triggering in that time interval.

[DO Status]

- Disable: Disable the DO function.
- Enable: Enable the output signal when DO is triggered.
- Set the duration of DO signal. The available durations are 5, 10, 30, 60, 120, 300, 600,

1800 and 3600 seconds. If DO is triggered, in this time interval, DO will keep on triggering.

[Action]

There are 6 actions that are related to the DI/DO functions.

- **DI →Camera Recording**

  When DI is triggered, DVR can start to record the video of selected cameras. You can select the cameras to be recorded when DI is triggered by using the "DI/Camera array" shown below the setting. Each DI signal can trigger more than one camera recording.

- **Cam Motion →DO**

  When selected camera detects motion, selected DO can be triggered and start to send control signal to the external device (e.g., alarm) within the DO duration. The "Camera/DO array" below the setting allows you to relate the DO devices corresponding to each camera.

- **Cam V-Loss →DO**

  When selected camera video is lost, selected DO can be triggered and start to send control signal to the external device (e.g., alarm) within the DO duration. The "Camera/DO array" below the setting allows you to relate the DO devices corresponding to each camera.

- **DI →DO**

  When selected DI is triggered, selected DO can be triggered and start to send control signal to the external device (e.g., alarm) within the DO duration. The "DI/DO array" below the setting allows you to relate the DO devices corresponding to each DI.

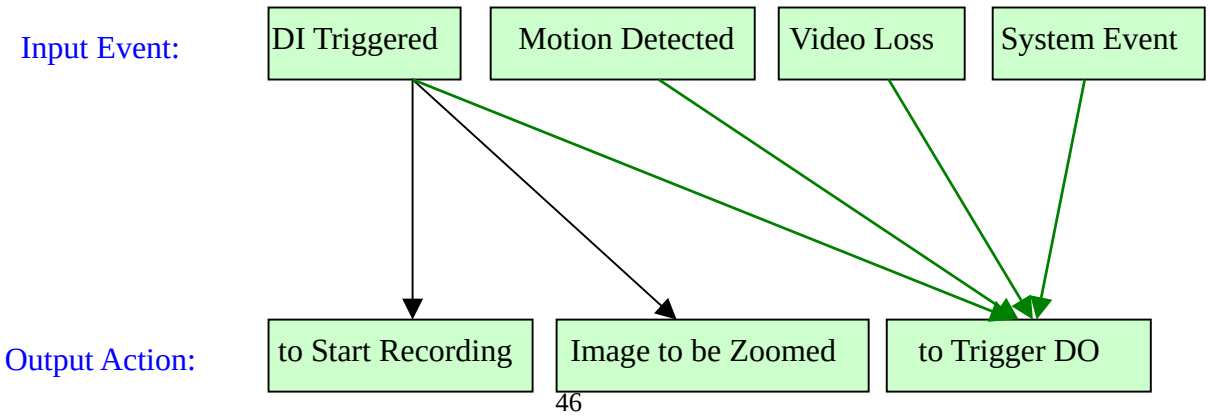
- **System Event →DO**

  There are two types of system event. One is " **System Warning**" and the other one is "**System Error**". When system event occurs, selected DO will be triggered and start to send control signal to the external device (e.g., alarm) within the DO duration. The "Event/DO array" below the setting allows you to relate the DO devices corresponding to each system event.

- **DI →Zoom**

  When selected DI is triggered, selected camera will be triggered and its image will be zoomed in the "Motion/Alarm Zooming area" (refer to Chapter 3-2).

- The following figure may help to understand the concept described above.

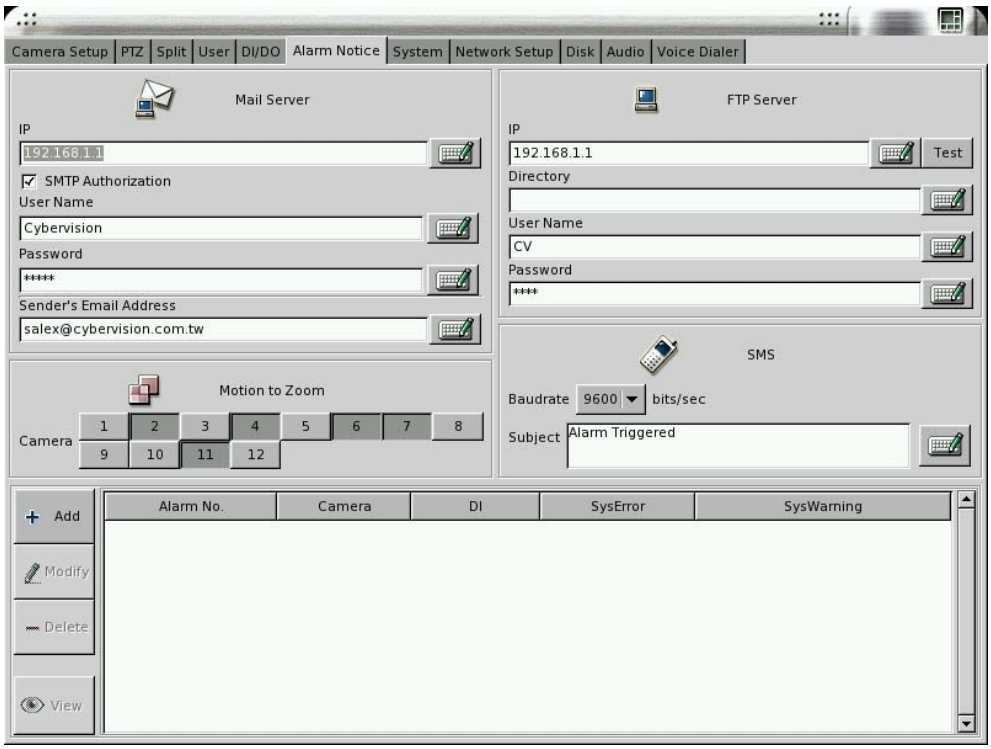


5-6 Alarm Notice

SuperVision Series can send four types of alarm to your pre-defined **email addresses**, **FTP site**, **mobile phone number (**via **SMS) or Voice dialer**. This section gives step-by-step instructions to send different alarms to each destination. We define four types of alarm sources as below.
dvr

Alarm Source	Definition
Motion Alarm	Motion is detected in selected cameras (despite the recording mode is full recording, motion sensor recording or no recording).
DI Alarm	Selected DI is triggered.
System Error Alarm	(1) Hard disk error, or (2) Camera lost signal.
System Warning Alarm	1. Hard disk is going to enter recycle mode (free space less than 4GB), or 2. Hard disk has being in recycle mode.

First, please click on the icon "**Alarm Notice**" to see the following figure:



[**Alarm to Email]**

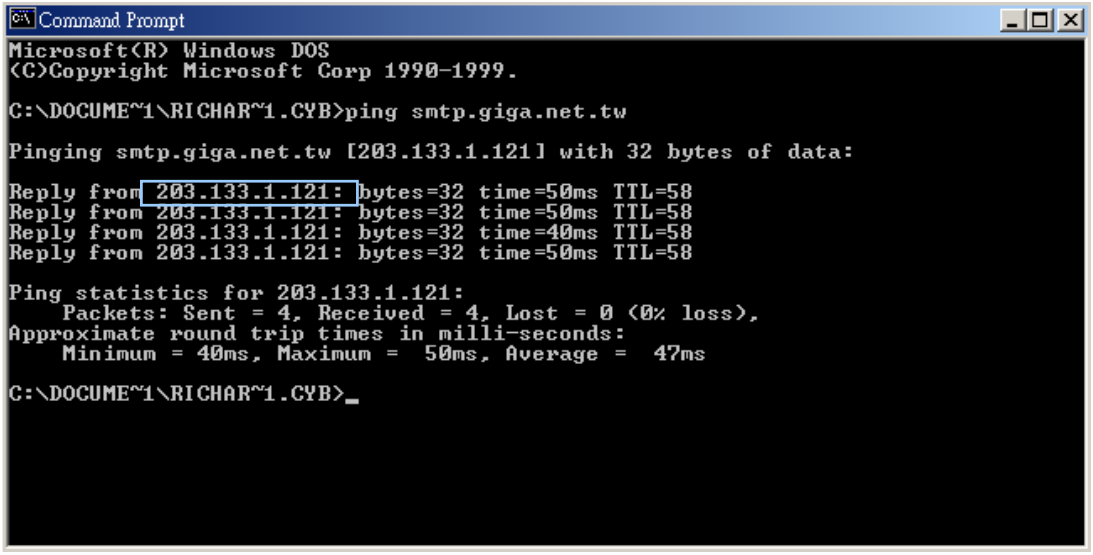
(1) Make sure the DVR system connects to Internet.

(2) Key in the IP address or the hostname of the mail server. If the mail server requires

user name and password to send emails, please click the icon “Authorization SMTP” to enter the user name and password.

Note:

- If you don’t know the IP address of your mail server, you can ping the mail server to get the IP address as following figure.


Command Prompt
Microsoft(R) Windows DOS
(C)Copyright Microsoft Corp 1990-1999.
C:\DOCUME~1\RICHAR~1.CYB>ping smtp.giga.net.tw
Pinging smtp.giga.net.tw [203.133.1.121] with 32 bytes of data:
Reply from 203.133.1.121: bytes=32 time=50ms TTL=58
Reply from 203.133.1.121: bytes=32 time=50ms TTL=58
Reply from 203.133.1.121: bytes=32 time=40ms TTL=58
Reply from 203.133.1.121: bytes=32 time=50ms TTL=58
Ping statistics for 203.133.1.121:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 40ms, Maximum = 50ms, Average = 47ms
C:\DOCUME~1\RICHAR~1.CYB>

(3) Key in sender’s full email address. It must be a valid email address.

(4) Add Alarm Notice: Click the icon **Add** to see the follow figure.

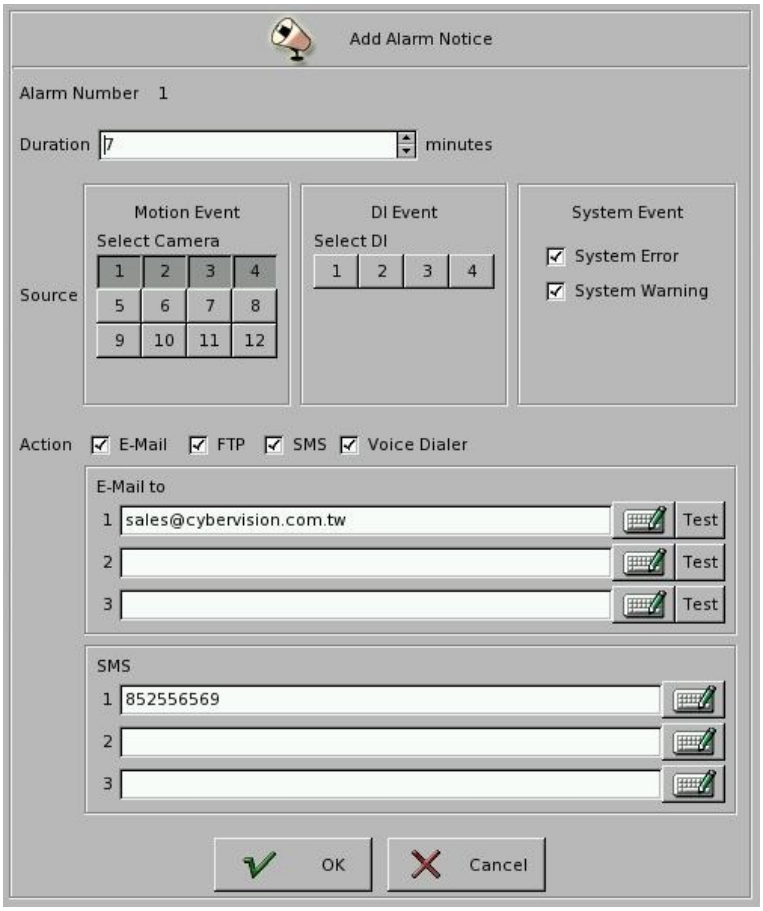
(5) Alarm Duration: The duration time can be from 1 minute to 1440 minutes (1 day). When the “Alarm” happens, the DVR system will send the alarm notice one time during the duration and do it again in next duration until the “Alarm Source” disappears.

(6) Select alarm **Source**. Please refer to the definition of each alarm source.

(7) Action: Click the icon “**E-Mail”** and key in the email addresses which will receive the alarm notice. You can enter three email addresses to be notified for a single alarm.

(8) Click “**OK**” when you have done the setting.

(9) You can add another alarm notice by repeating the step (4) to (8).



[**Alarm to FTP Site]**

(1) Make sure the DVR system connects to Internet.

(2) Key in the IP address of the FTP site.

(3) Enter the directory you would like to store the alarm notice (logs and pictures).

(4) Add Alarm Notice: Click the icon **Add** to see the above figure.

(5) Alarm Duration: The duration time can be from 1 minute to 1440 minutes (1 day). When the "Alarm" happens, the DVR system will send the alarm notice one time during the duration and do it again in next duration until the "Alarm Source" disappears.

(6) Select alarm **Source**. Please refer to the definition of each alarm source.

(7) Action: Click the icon "**FTP"**.

(8) You can add another alarm notice by repeating the step (4) to (7).

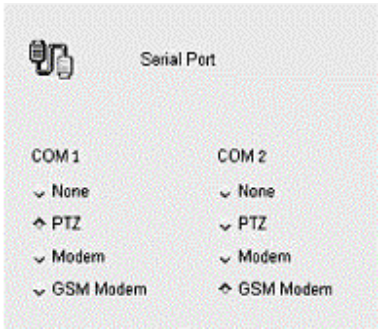
[**Alarm to SMS]**

This function requires an external GSM modem to send messages to mobile phones via SMS (Short Message Service).

(1) Please refer to your GSM modem user manual for the physical connections.

(2) Go to **Serial Port** setting in the **System** sub-menu. Choose **GSM Modem** on the

COM port that connects to the GSM modem.



(3) Back to this **Alarm Notice** sub-menu, and set the **Baud Rate** to be 9600 baud per second. (Note: If you fail to send SMS successfully, you may reduce the baud rate to 4800 or 2400 bps and try again.)

(4) Key in the **Subject** of the alarm message (for example, DVR Alarm).

(5) Add Alarm Notice: Click the icon **Add**.

(6) Alarm Duration: The duration time can be from 1 minute to 1440 minutes (1 day). When the "Alarm" happens, the DVR system will send the alarm notice one time during the duration and do it again in next duration until the "Alarm Source" disappears.

(7) Select alarm **Source**. Please refer to the definition of each alarm source.

(8) **Action**: Click the icon "**SMS"** to enter the mobile phone number. You can enter three mobile phone numbers to be notified for a single alarm.

(9) Click "**OK**" when you have done the setting.

(10) You can add another alarm notice by repeating the step (5) to (9).

[Alarm to Voice Dialer]

This function requires an external Voice Dialer to send alarm messages to phones. SuperVision Series Ver 4.0 only supports **Voyager** Voice Dialer.

(1) Please refer to **Voyager** Voice Dialer user manual for the physical connections.

(2) Go to the "**Voice Dialer**" setting in the **System** sub-menu to set the phone number which you want to let the DVR auto dial out. You can enter three phone numbers to be notified for a single alarm.

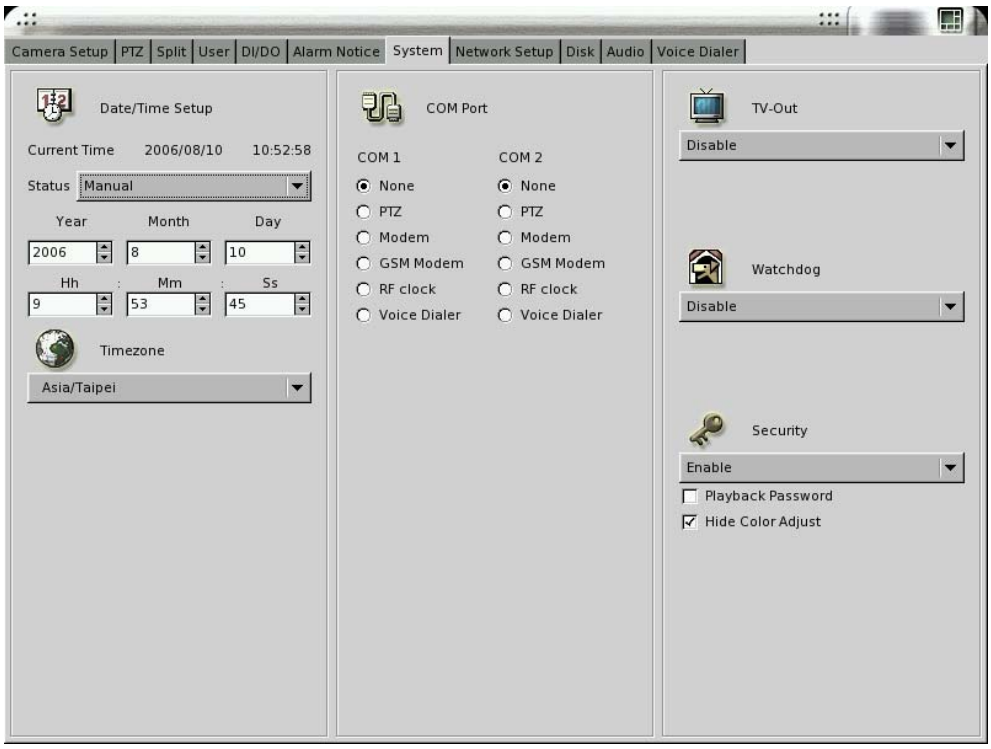
(3) Go to **Serial Port** setting in the **System** sub-menu. Choose **Voice Dialer** on the COM port that connects to the **Voice Dialer**.

Note:

- You can send the same alarm notice via email, FTP, SMS and Voice Dialer at the same time. You can also modify or delete your previous alarm notice setting. It is very similar to add a new alarm notice.

5-7 System

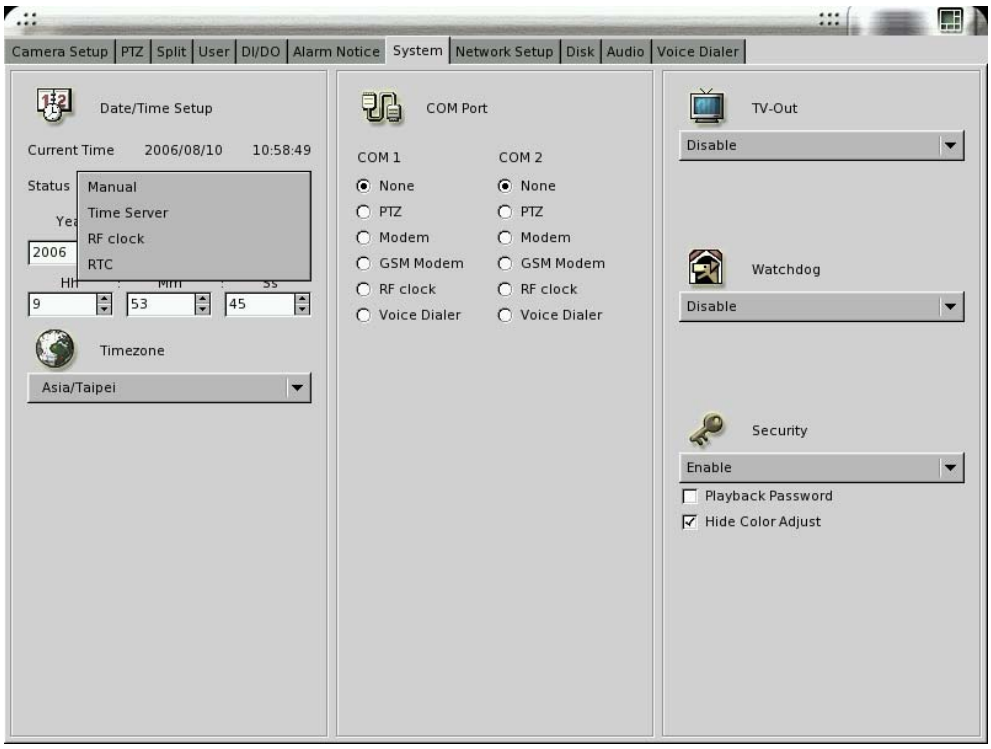
Click “System” tab for the settings: “Date/Time”, “RS-232”, “TV-Out”, “Watch Dog”, “Language”, and “Security”.



5-7-1 Time Synchronization

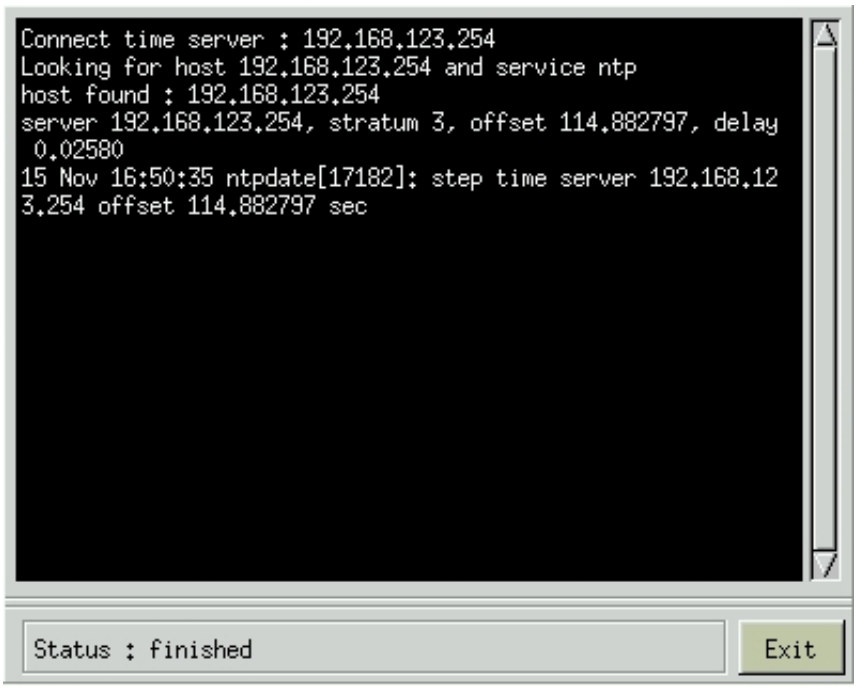
There are four kinds of methods to synchronize DVR's time.

Type	Description
1. Manual	Set up time manually
2. Time Server	Synchronize DVR time with Time Server
3. RF Clock	Synchronize DVR time with RF Clock
4. RTC	Synchronize DVR time with Real Time Clock(RTC)



When you select " Time Server" Synchronization, enter the IP address or hostname of the Time Server.

You can test the Time Server function by clicking “Time Server test”.


Connect time server : 192.168.123.254
Looking for host 192.168.123.254 and service ntp
host found : 192.168.123.254
server 192.168.123.254, stratum 3, offset 114.882797, delay
0.02580
15 Nov 16:50:35 ntpdate[17182]: step time server 192.168.12
3.254 offset 114.882797 sec
Status : finished
Exit

When you select “ RF Clock” Synchronization, you can click “ Test” button to do the “RF clock test”. Then, the DVR will issue a command to RF clock to get Time information and display it on the screen. RF Clock can be connected to the DVR through RS232 port.

Note:

1. Configuring Time Synchronization will reboot DVR.
2. When you synchronize DVR time by RF Clock, the selection of RS232 COM port(COM 1 or COM 2) in System configuration must be the same as the physical connection.

5-7-2 Other Functions

[RS 232]

This setting is for you to configure the RS232 port. Select the correct device that connects to your system to make its function work.

[TV Out]

CyberVision SuperVision supports the VGA card with TV-out function. With this function, you can export DVR screen to TV Wall. You can click the icon and choose “Disable”, “NTSC-J”, “NTSC-M”, “PAL-B”, “PAL-D”, “PAL-G”, “PAL-H”, “PAL-I”, “PAL-M”, PAL-N” based on the TV-out function requirement.

[Watch Dog]

Watch Dog is a hardware device to monitor the system status. If the system fails to response, Watch Dog will send a reset signal to the motherboard to reboot the system. To enable Watch Dog function, please select available durations 15,20, 25… or 60 seconds. It requires **the first capture card** to have a physical connection to the reset pin of the motherboard.

[Language]

CyberVision SuperVision supports 8 display languages, i.e., English, French, Germany, Japanese, Polish, Portuguese, Spanish, and Traditional Chinese.

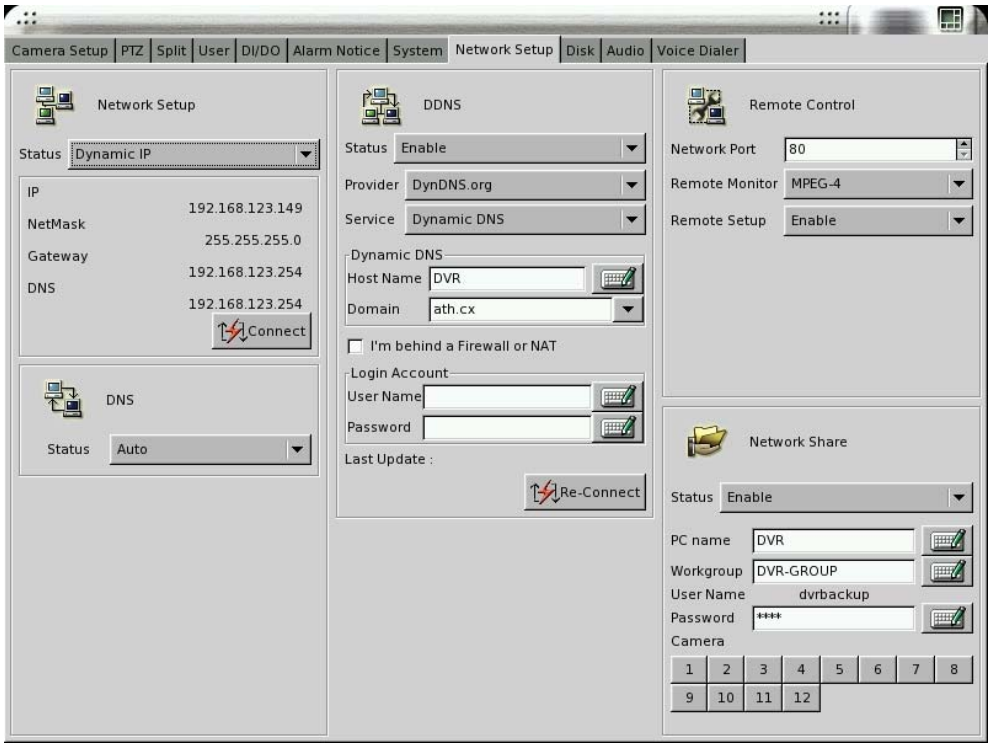
[**Security**]

You can “Enable” or “Disable (preset)” the security control setting.

- **Playback Password:** if enabling this setting, then it requires password to enter Playback mode.
- **Hide Color Adjust:** if enabling this setting, then color adjustment functions cannot be executed while zooming-in single channel.

5-8 Network Setup

Click “Network Setup” tab to set up the network configurations as follows. Enable the “Static IP ” and enter the IP address, NetMask, and Gateway in the fields.



Note: If you use another network port (like port 81) instead of default port 80, when you start the remote viewing, please remember to add the port number followed by the IP address and the “http://” in front of the IP address. For example: http://142.173.62.171:81. If you use port 80, you could just click the IP address directly.

[DNS]

An internet service that translates *domain name* into IP address . For example , the domain name *www.example.com* can translate into *198.105.232.4.*

[DDNS]

The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname, allowing your computer to be more easily accessed from various location on the Internet.

We support free DDNS account and customer pay account. To use this service, for free account, you must apply an account from several free Web servers such as *http://DynDNS.org*

[DHCP]

A protocol for assigning *dynamic IP address* to devices on a network. With dynamic

addressing, a device can have a different IP address every time it connects to the network .

5-8-1 Remote Monitor

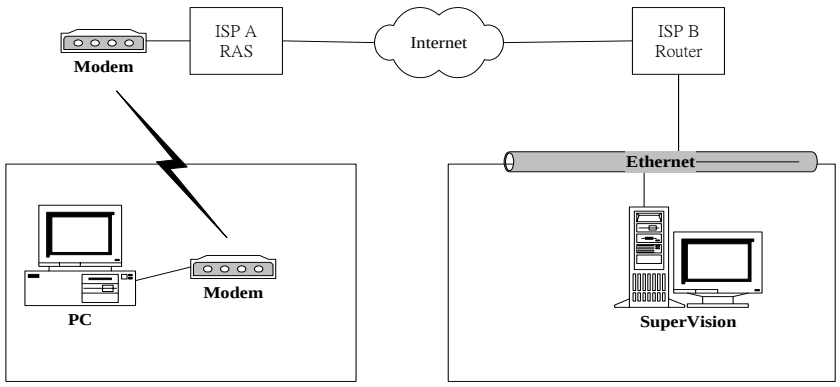
[**JPEG]**

If you set this function to be JPEG, DVR will encode one JPEG picture per channel per second for remote access. The remote PC needs to install Java Virtual Machine.

[**MPEG-4]**

If you set this function to be MPEG-4, DVR will encode about 30 pictures per system per second for remote access. The remote PC needs to install "MPEG4 player", which can be download from the DVR.

5-8-2、Remote Monitor via Internet by a modem



[DVR site]

Before starting the remote monitoring function, users need to apply for a fixed line (leased line or ADSL), and get the fixed IP address from the ISP (Internet Service Provider). The framework to perform this feature is depicted in the above figure. Moreover, please follow the procedure described in section 4-8 "Network Setup" to setup the network configuration. Remember to check that the fixed line(usually RJ45 cable) has connected to the DVR system correctly.

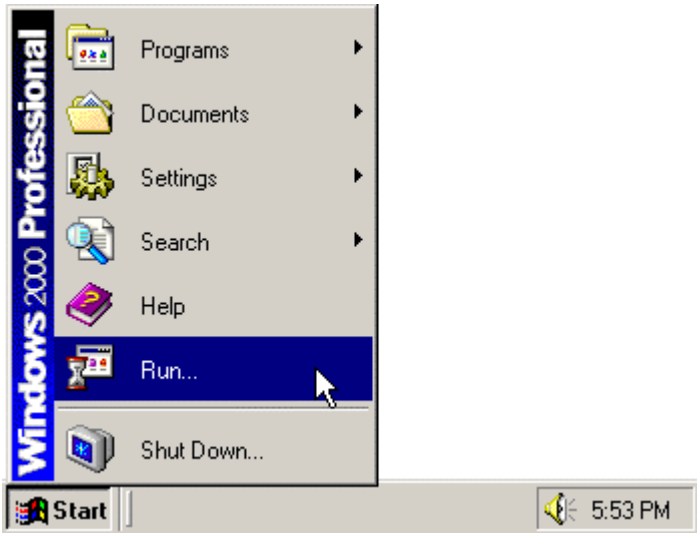
[Remote user site]

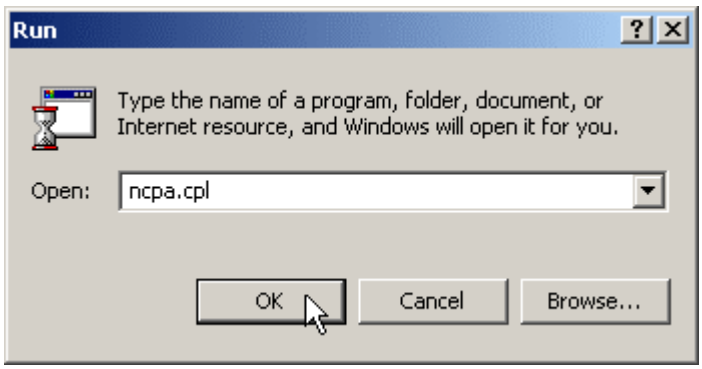
Please refer the following procedure (which is extracted from documents provided by MicroSoft^{M} Inc. to finish the setting of user site where a window 2000 system is installed.

- **Windows 2000 Dial-Up Guide**

  - ✓ **Step 1**

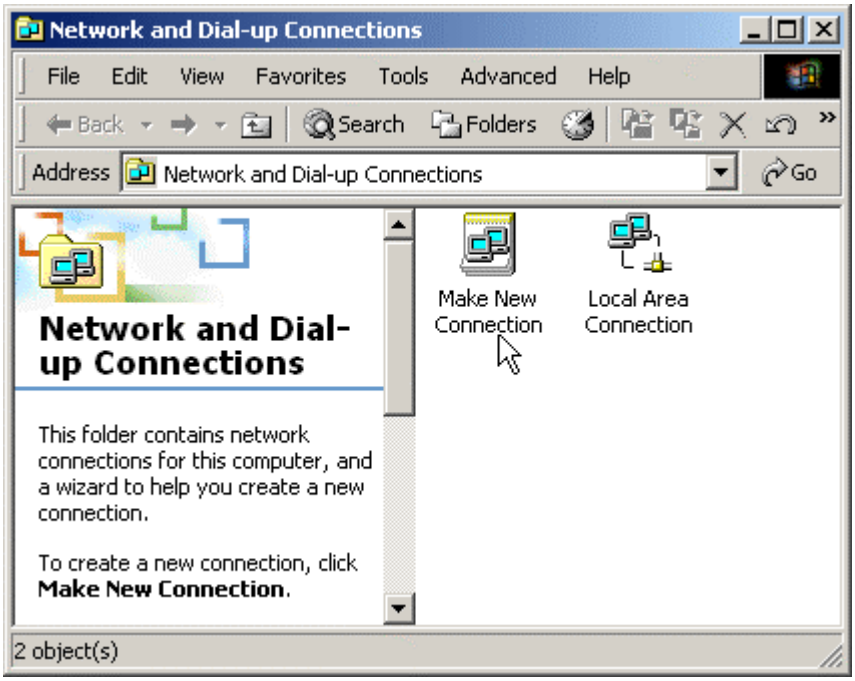
Click **Start** on your Windows taskbar, select **Run**. Type **ncpa.cpl** in the Open field then click **OK** to begin.





✓ **Step 2**

In the Network and Dial-Up Connections window, open **Make New Connection** to start the Network Connection Wizard.


Network and Dial-up Connections
File Edit View Favorites Tools Advanced Help
Back Search Folders
Address Network and Dial-up Connections
Go
Network and Dial-up Connections
This folder contains network connections for this computer, and a wizard to help you create a new connection.
To create a new connection, click Make New Connection.
Make New Connection
Local Area Connection
2 object(s)

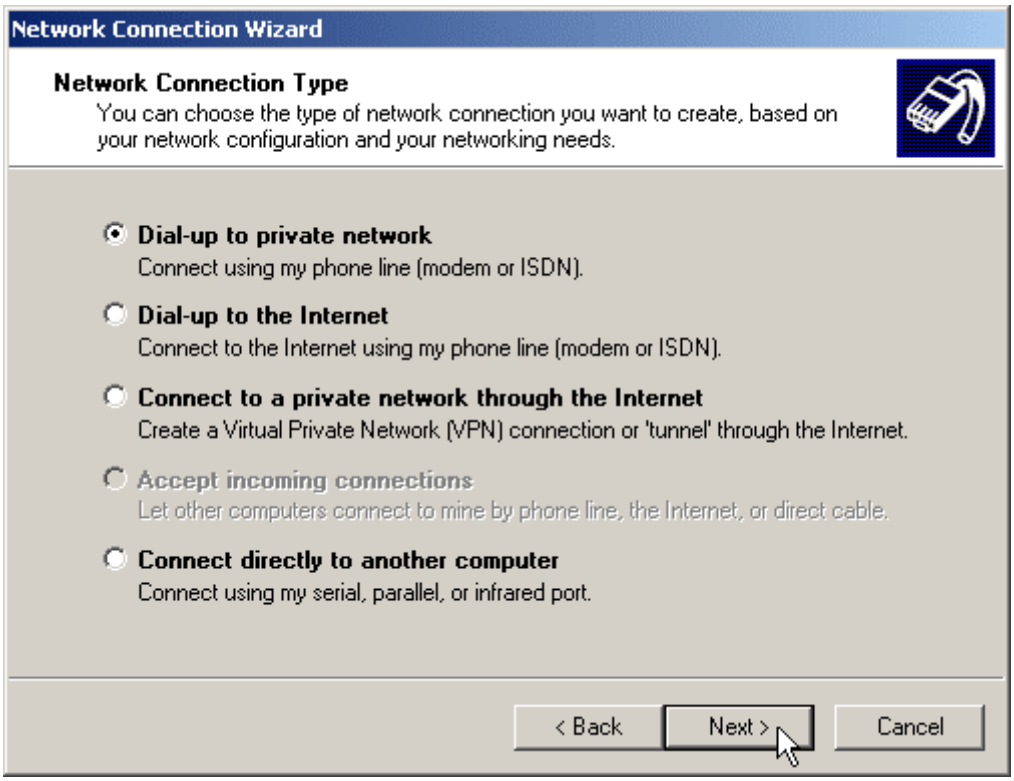
✓ **Step 3**

In the Welcome to the Network Connection Wizard window, click **Next**.

Network Connection Wizard
Welcome to the Network Connection Wizard
Using this wizard you can create a connection to other computers and networks, enabling applications such as e-mail, Web browsing, file sharing, and printing.
To continue, click Next.
< Back
Next >
Cancel

✓ **Step 4**

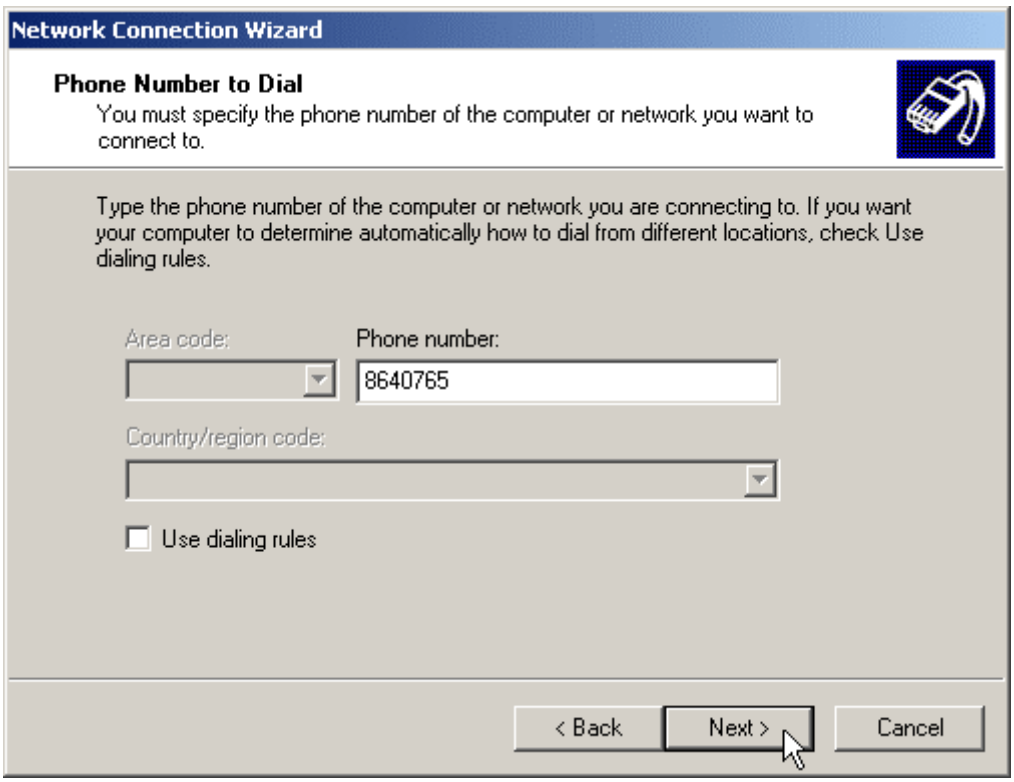
The New Connection Type window will have several selections. Choose **Dial-Up to private network**, then click **Next**.


Network Connection Wizard
Network Connection Type
You can choose the type of network connection you want to create, based on your network configuration and your networking needs.
Dial-up to private network
Connect using my phone line (modem or ISDN).
Dial-up to the Internet
Connect to the Internet using my phone line (modem or ISDN).
Connect to a private network through the Internet
Create a Virtual Private Network (VPN) connection or 'tunnel' through the Internet.
Accept incoming connections
Let other computers connect to mine by phone line, the Internet, or direct cable.
Connect directly to another computer
Connect using my serial, parallel, or infrared port.
< Back
Next >
Cancel

✓ **Step 5**

For the Phone Number to Dial window, first choose a local service number from the following Web sites...

Please type in the number you have chosen and click Next to continue.


Network Connection Wizard
Phone Number to Dial
You must specify the phone number of the computer or network you want to connect to.
Type the phone number of the computer or network you are connecting to. If you want your computer to determine automatically how to dial from different locations, check Use dialing rules.
Area code:
Phone number:
8640765
Country/region code:
Use dialing rules
< Back
Next >
Cancel

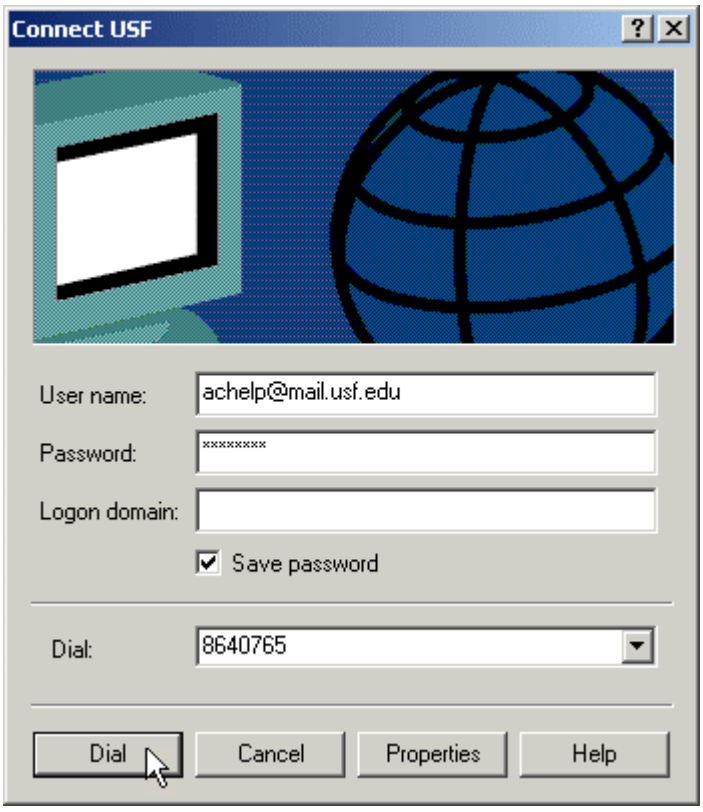
✓ **Step 6**

In the Completing the Network Connection Wizard window, check the box labeled **Add a shortcut to my desktop**, then click **Finish** to close the wizard, and therefore, start the Connect window.

Network Connection Wizard
Completing the Network Connection Wizard
Type the name you want to use for this connection:
SV-1000
To create this connection and save it in the Network and Dial-up Connections folder, click Finish.
To edit this connection in the Network and Dial-up Connections folder, select it, click File, and then click Properties.
Add a shortcut to my desktop
< Back
Finish
Cancel

✓ **Step 7**

Before dialing, the Connect window has several text fields to fill. Your **User name** will be your entire official USF e-mail address and the **Password** will be the password to that e-mail address, respectively. In addition, you may check the **Save password** box and/or customize the phone number (to disable call-waiting or other features) if you prefer.



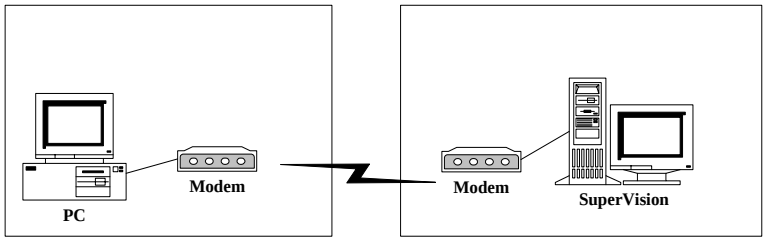
✓ **Step 8**

Your connection setup is now complete! If you have not payed for USFBasic Dial-up yet, please do so at the **iConnect Marketplace**. Qualified faculty must register through the **Faculty Modem Pool Eligibility page**. Both Web addresses are respectively listed below for your convenience.

After successful connect, the user's PC will be assigned an IP Address from the RAS (Remote Access Server) of ISP.

Users can open the Web Browser now, enter SV-1000 IP Address (Refer to 4-8), and wait for several seconds (time for loading program) to start remote monitoring function.

5-8-3、Remote Monitor when SV-1000 is connected to the Internet by a modem



Similar to dialing up to ISP (Internet Service Provider) for connecting to internet described in the previous section, direct dial-in access is another way to let users remotely connecting to SuperVision series products which is equipped with a modem device. The above figure depicts the framework of this feature.

Additionally, the only slightly difference between these two methods is that direct dial-in access uses SuperVision series products to replace the function provided by ISP RAS (Remote Access Server) to perform the procedure of connection.

[DVR site]

From the DVR site, please follow the steps below to finish the setting.

1. Login the setup page of the DVR system as an administrator, and then setup the network functions you required on “Network Setup” page, for example, enable remote monitoring, enable remote setup, ..etc.
2. Prepare a user account which has the permission of dial-in access. Or the default user “admin” has the permission already. Later on, from the remote site, you need this account to login the DVR system once the dial-in access is finished.
3. Check the BIOS setting of motherboard to make sure that the setting of onboard Serial Port 1” (Port A) is enabled (or Auto or 3F8).
4. Connect the modem to the COM1 interface of the DVR system.
5. Prepare a regular telephone line (PSTN), and then correctly connect the modem to the telephone line.
6. Remember to power on the modem and check if the status of modem is correct before power on the DVR system.

[Remote user site]

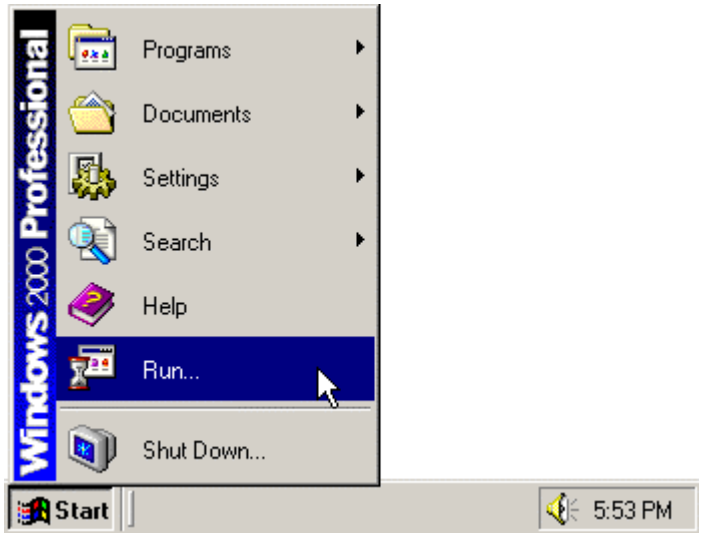
Please refer the following procedure (, which is extracted from documents provided by

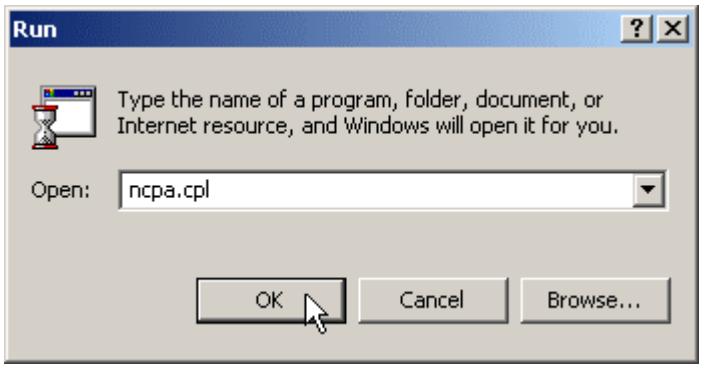
MicroSoft[M] Inc. to finish the setting of user site where a window 2000 system is installed.

- **Windows 2000 Dial-Up Guide**

✓ **Step 1**

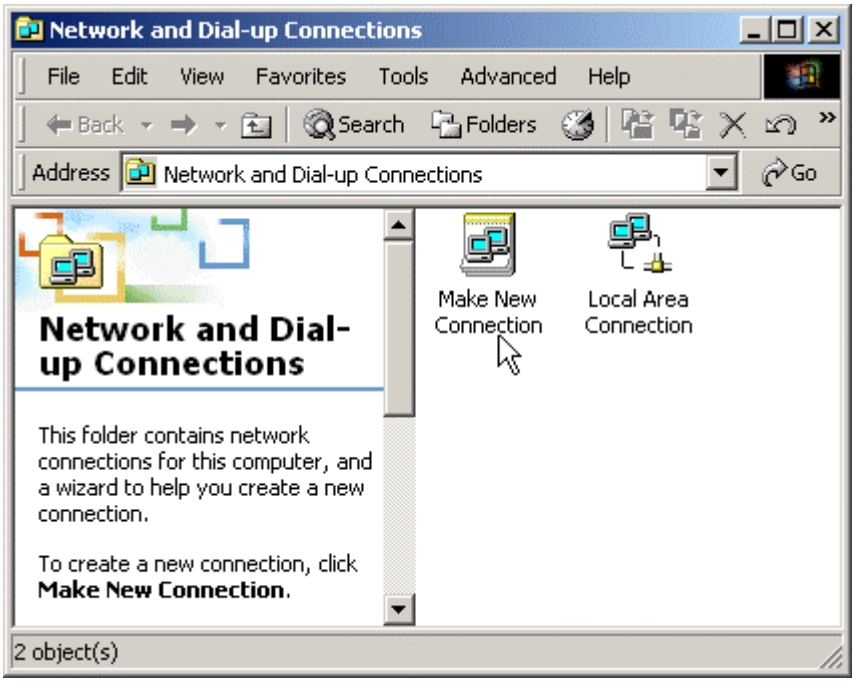
Click **Start** on your Windows taskbar, select **Run**. Type **ncpa.cpl** in the Open field then click **OK** to begin.





✓ **Step 2**

In the Network and Dial-Up Connections window, open **Make New Connection** to start the Network Connection Wizard.


Network and Dial-up Connections
File Edit View Favorites Tools Advanced Help
Back Search Folders
Address Network and Dial-up Connections
Go
Network and Dial-up Connections
This folder contains network connections for this computer, and a wizard to help you create a new connection.
To create a new connection, click Make New Connection.
Make New Connection
Local Area Connection
2 object(s)

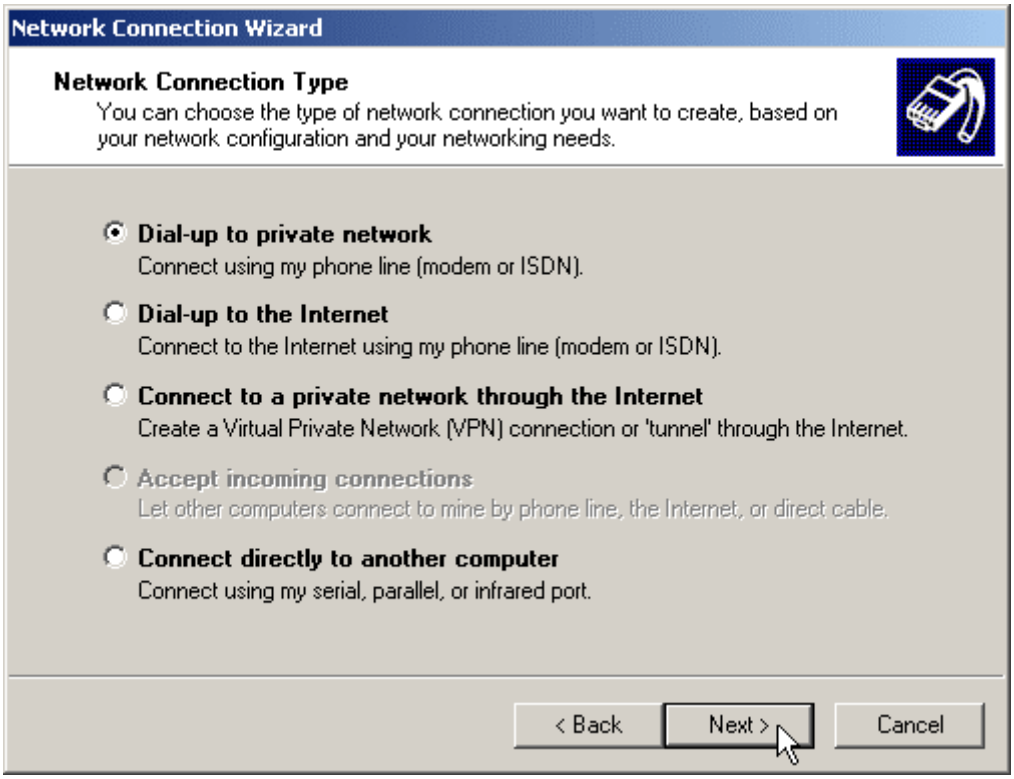
✓ **Step 3**

In the Welcome to the Network Connection Wizard window, click **Next**.

Network Connection Wizard
Welcome to the Network Connection Wizard
Using this wizard you can create a connection to other computers and networks, enabling applications such as e-mail, Web browsing, file sharing, and printing.
To continue, click Next.
< Back
Next >
Cancel

✓ **Step 4**

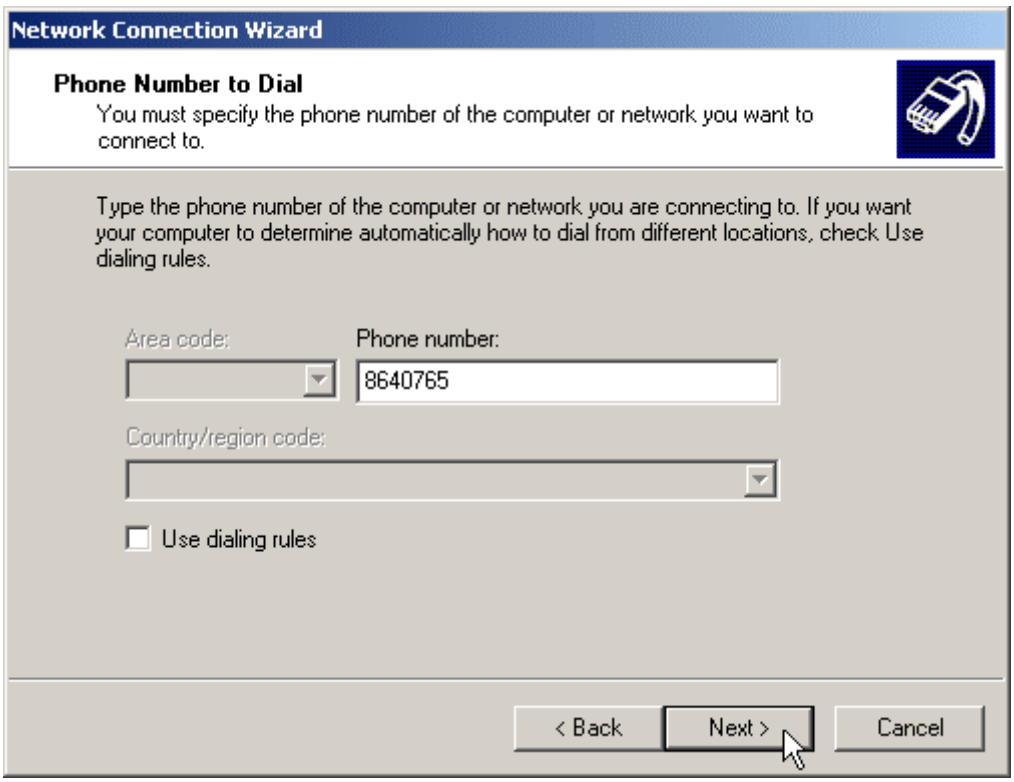
The New Connection Type window will have several selections. Choose **Dial-Up to private network**, then click **Next**.


Network Connection Wizard
Network Connection Type
You can choose the type of network connection you want to create, based on your network configuration and your networking needs.
Dial-up to private network
Connect using my phone line (modem or ISDN).
Dial-up to the Internet
Connect to the Internet using my phone line (modem or ISDN).
Connect to a private network through the Internet
Create a Virtual Private Network (VPN) connection or 'tunnel' through the Internet.
Accept incoming connections
Let other computers connect to mine by phone line, the Internet, or direct cable.
Connect directly to another computer
Connect using my serial, parallel, or infrared port.
< Back
Next >
Cancel

✓ **Step 5**

For the Phone Number to Dial window, first choose a local service number from the following Web sites...

Please type in the number you have chosen and click **Next** to continue.


Network Connection Wizard
Phone Number to Dial
You must specify the phone number of the computer or network you want to connect to.
Type the phone number of the computer or network you are connecting to. If you want your computer to determine automatically how to dial from different locations, check Use dialing rules.
Area code:
Phone number:
8640765
Country/region code:
Use dialing rules
< Back
Next >
Cancel

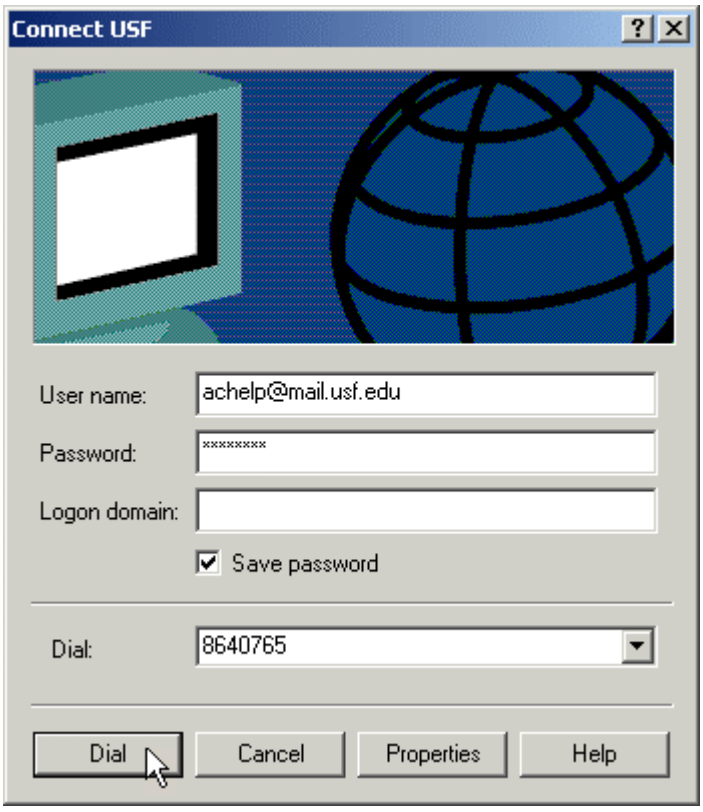
✓ **Step 6**

In the Completing the Network Connection Wizard window, check the box labeled **Add a shortcut to my desktop**, then click **Finish** to close the wizard, and therefore, start the Connect window.

Network Connection Wizard
Completing the Network Connection Wizard
Type the name you want to use for this connection:
SV-1000
To create this connection and save it in the Network and Dial-up Connections folder, click Finish.
To edit this connection in the Network and Dial-up Connections folder, select it, click File, and then click Properties.
Add a shortcut to my desktop
< Back
Finish
Cancel

✓ **Step 7**

Before dialing, the Connect window has several text fields to fill. Your **User name** will be your entire official USF e-mail address and the **Password** will be the password to that e-mail address, respectively. In addition, you may check the **Save password** box and/or customize the phone number (to disable call-waiting or other features) if you prefer.



✓ **Step 8**

Your connection setup is now complete! If you have not payed for USFBasic Dial-up yet, please do so at the **iConnect Marketplace**. Qualified faculty must register through the **Faculty Modem Pool Eligibility page**. Both Web addresses are respectively listed below for your convenience.

Users can open the Web Browser now, enter SuperVision IP address(see Note), and wait for several seconds (time for loading program) to start remote monitoring function.

Note

After successful connecting to the modem, the PC will be assigned an IP Address, which is the successor number of SuperVision's IP Address. For example, if the IP address of SuperVision is 140.113.17.154, then 140.113.17.155 will be assigned to the PC. Therefore, you need to use this IP address in IE browser in order to connect to the DVR system.

5-8-4 Remote Setup

Remote Setup allows you to configure most functions of the DVR via another PC remotely. Please refer to chapter 6 for remote operation.

5-8-5 Network Share

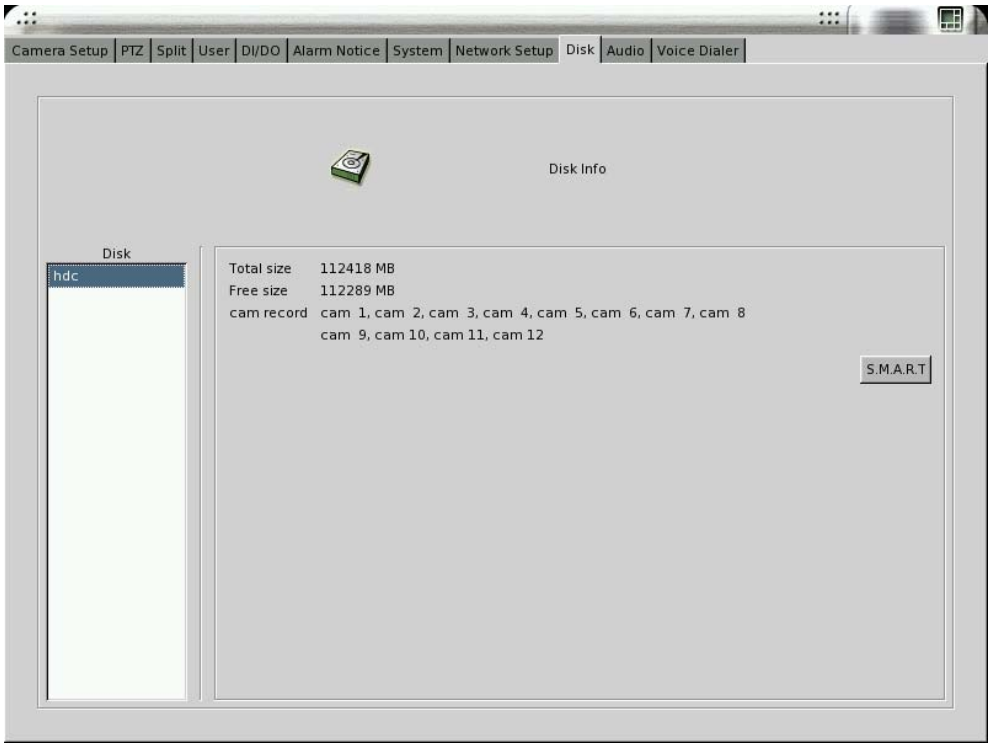
This function allows you to find the DVR in the network and copy the recorded files to your PC remotely.

1 Enable "Network Share Status".
2 Give a name for this DVR for identification in the network.
3 Enter the Workgroup.
4 Give a password for remote access of the files.
5 Click on the camera numbers to be shared in the network.

Please refer to chapter 6 for remote operation.

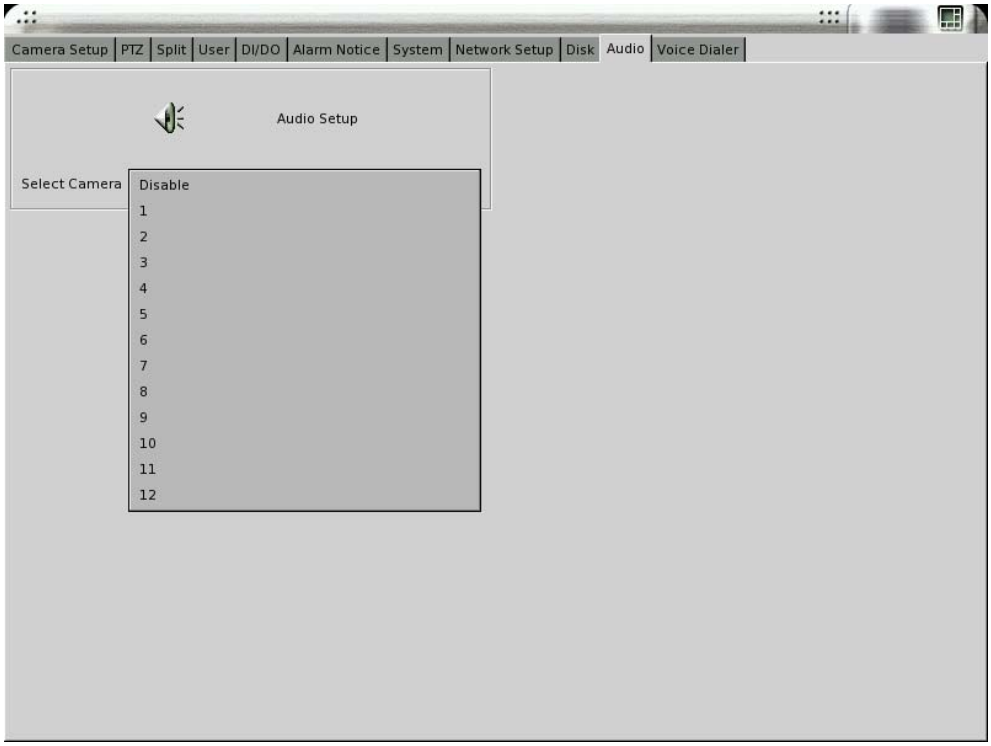
5-9 Disk

This function allows you to check disk status easily and precisely through pressing the S.M.A.R.T



5-10 Audio

Click on the icon “**Audio”** to set up the audio channel settings as following.



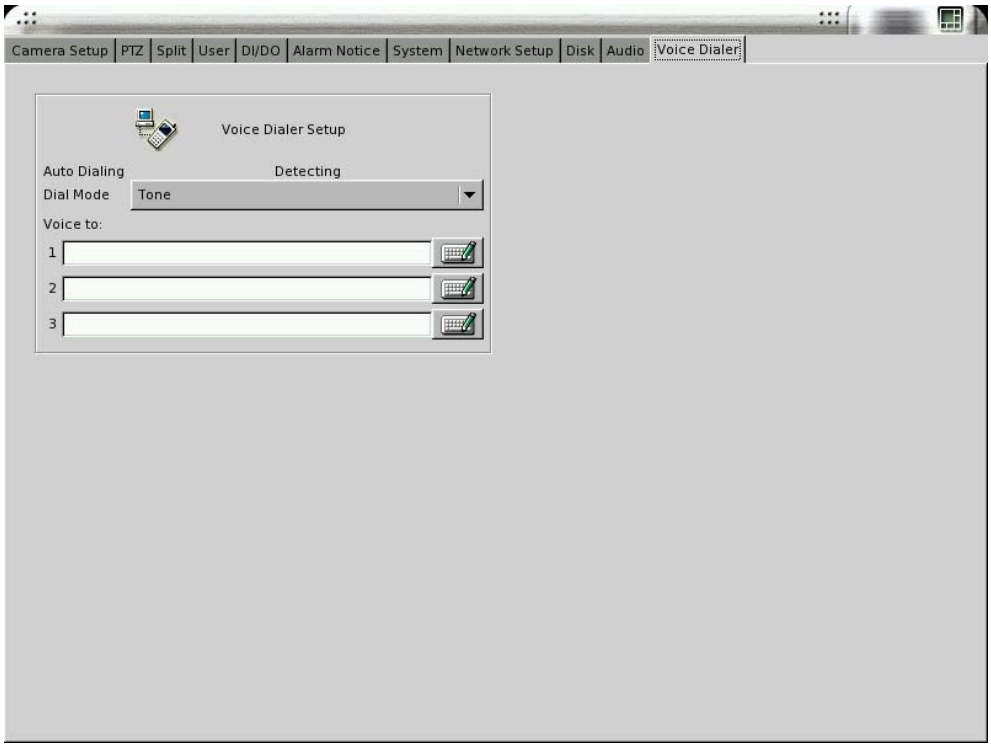
[Select Camera]

You can select camera number from the monitor screen which you want to add audio function. It means that if it connects a capture card of 4 channels, the No. you can select is from 1 to 4. Likewise, if you connects a capture card of 16 channels, the No. you can select is from 1 to 16.

Be sure to note that it only can select one channel to add audio function for each time at DVR ver 4.0. For DVR version 4.02, it will support four channel audio.

5-11 Voice Dialer

Click on the icon “Voice Dialer” to set up the dial out phone number of “Voice Dialer” to let the Voice Dialer send alarm message when Alarm occurs. You can enter three phone numbers to be notified for a single alarm at the same time. Please refer Chapter 5-6 about the setting of Alarm Notice.

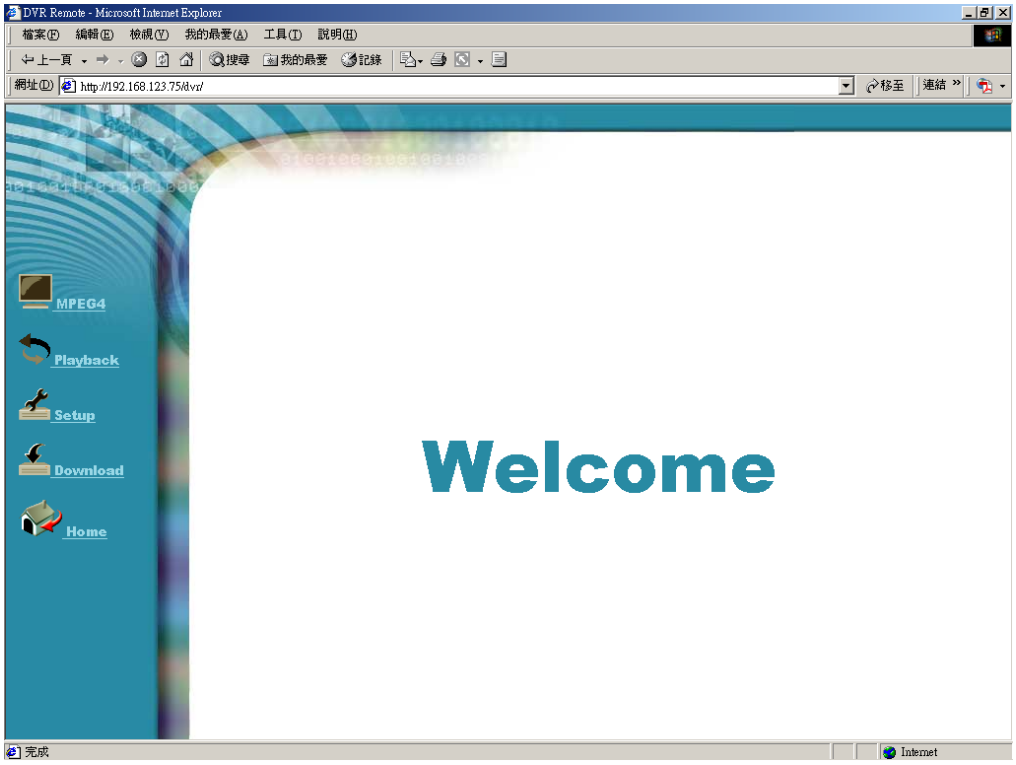


Note

- SuperVision ver 4.0 only support **Voyager** Voice Dialer facility

6. Remote Operation

CyberVision SuperVision allows you to monitor and control the system via network. Open an IE browser on the remote PC and enter the IP address of the DVR to see the screens below:



6-1 Download Player

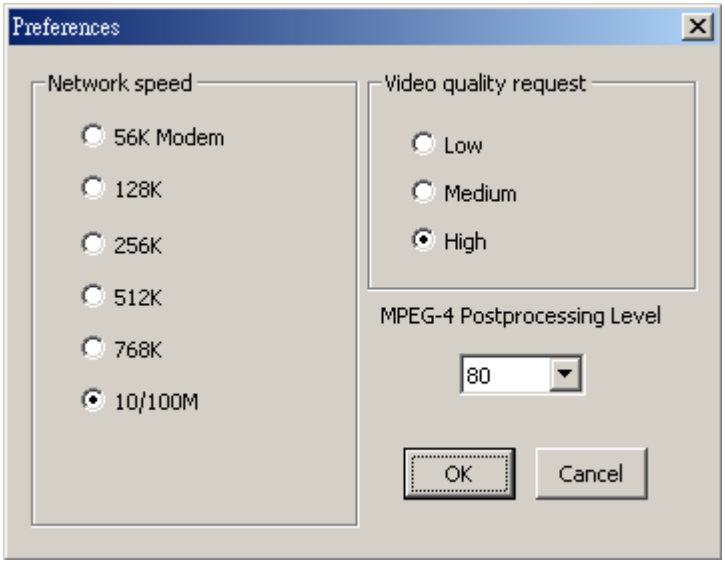
The remote PC needs to install the MPEG-4 player in order to monitor, playback, and control the DVR. The player can be downloaded from the DVR directly.
Click the “Download” icon and follow the instructions to install the player.

6-2 Remote Monitor via MPEG4

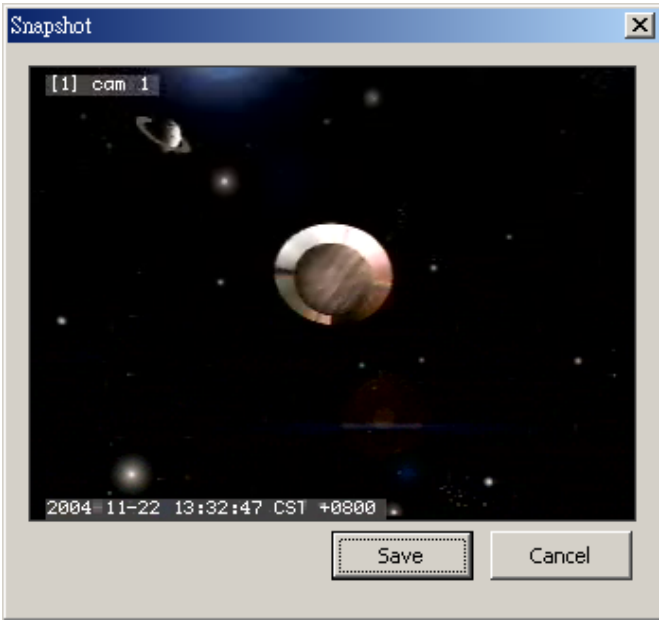
Click the **MPEG4** icon to see the following figure.

- Select the cameras to be displayed on the right of the screen.
- Click on the corresponding icons on the bottom of the screen to view difference display mode.

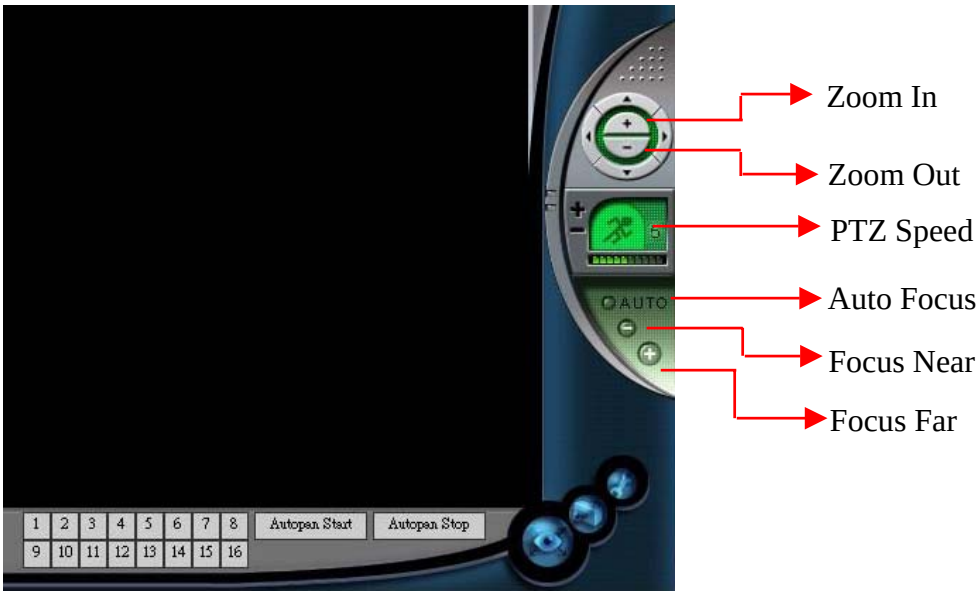
- Click the icon (Network Preferences) on the lower right of the screen to select the suitable network setting based on the actual environment. It will pop up a screen as follows.



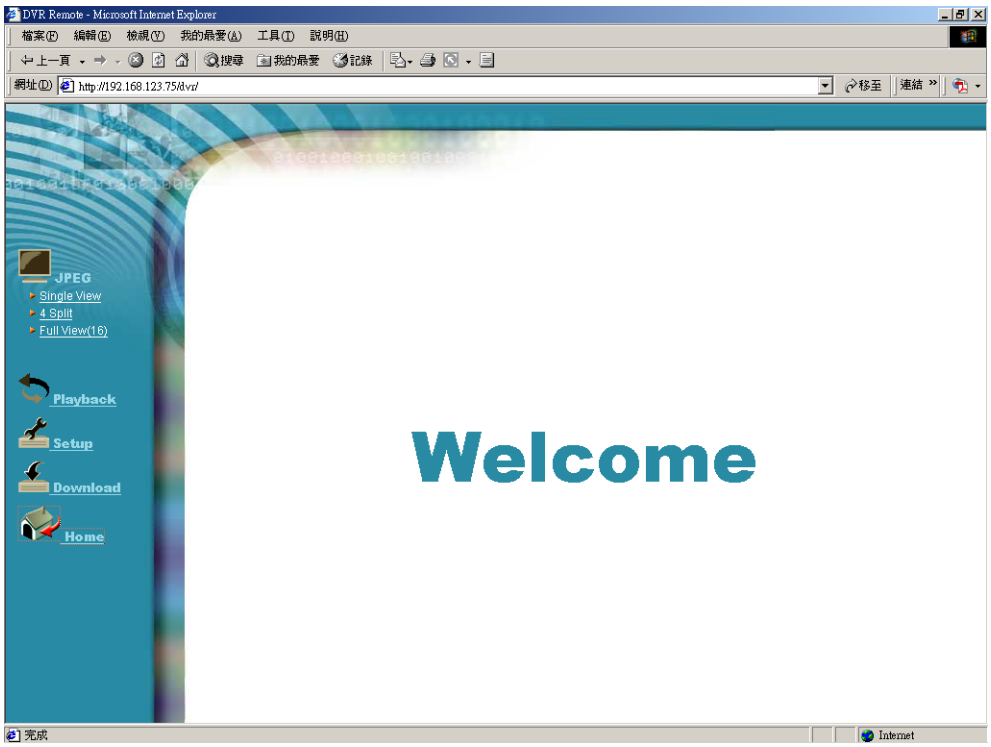
- You can click the icon (Full Screen) to enlarge the monitoring screen display. If you click it again, it will be back to the normal monitoring screen.
- You can select one of the pictures and click the icon (Snapshot) to save as a JPEG file.



- If you want to operate the PTZ function, click on the camera screen directly. The screen will enlarge and a PTZ control panel will appear on the right as below.


Zoom In
Zoom Out
PTZ Speed
Auto Focus
Focus Near
Focus Far
AUTO
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
Autopan Start
Autopan Stop

6-3 Remote Monitor via JPEG



(1) Click **Single View**, **4 Split** or **16 Split**.

(2) Select camera(s).

(3) Start to monitor.

Note

- Administrator must enable the JPEG remote monitor function first.
- The remote PC must have Java VM installed to see the pictures.

6-4 Remote Playback

Click the **Playback** icon to see the following figure.

(1) Select a date on the calendar.
(2) Select a Camera.
(3) Select a recording duration.
(4) Click on the Playback icon to start playback.
(5) You can select various playback speeds or drag the time bar directly.

Speed (－): To reduce the playback speed.

Speed (＋): To increase the playback speed.

Playback

Previous 1 min: To rewind 1 minute.

Next 1 min: To forward 1 minute.

Pause

Stop

Save video clips

Save JPEG files

Enlarge to full screen

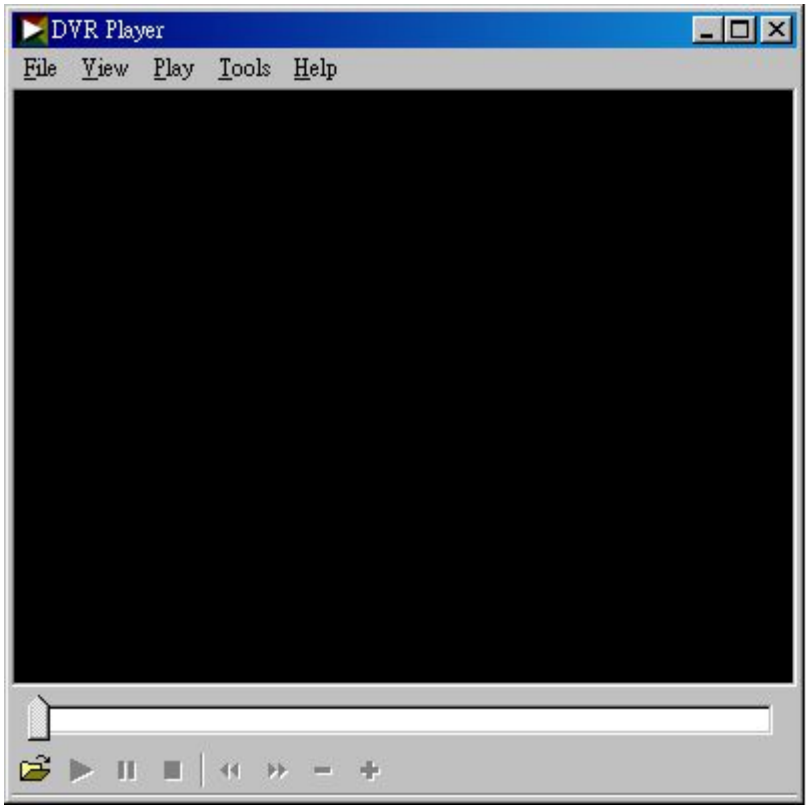
Adjust video size

6-5 DVR Player

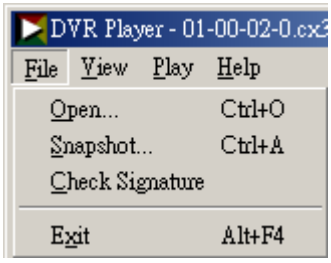
The DVR Player is used in three applications:

1. To watch the video clip downloaded from the DVR;
2. To watch the video clip burned on the CD-R/RW;
3. To verify the Digital Signature of the video clip.

You can find the DVR Player application in the program files.



- Click on the icon on bottom right to select a video clip.
- You can check the digital signature in File -> Check Signature.

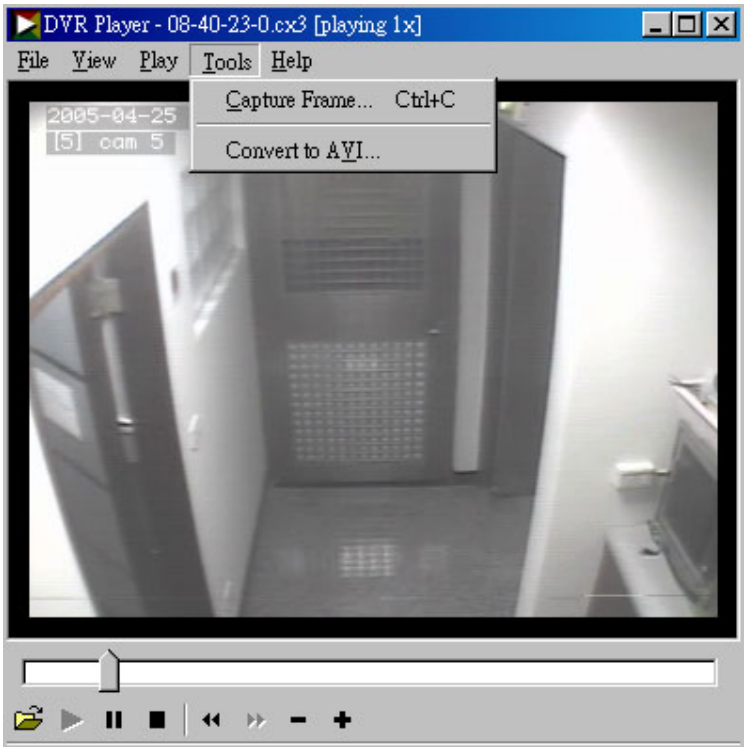


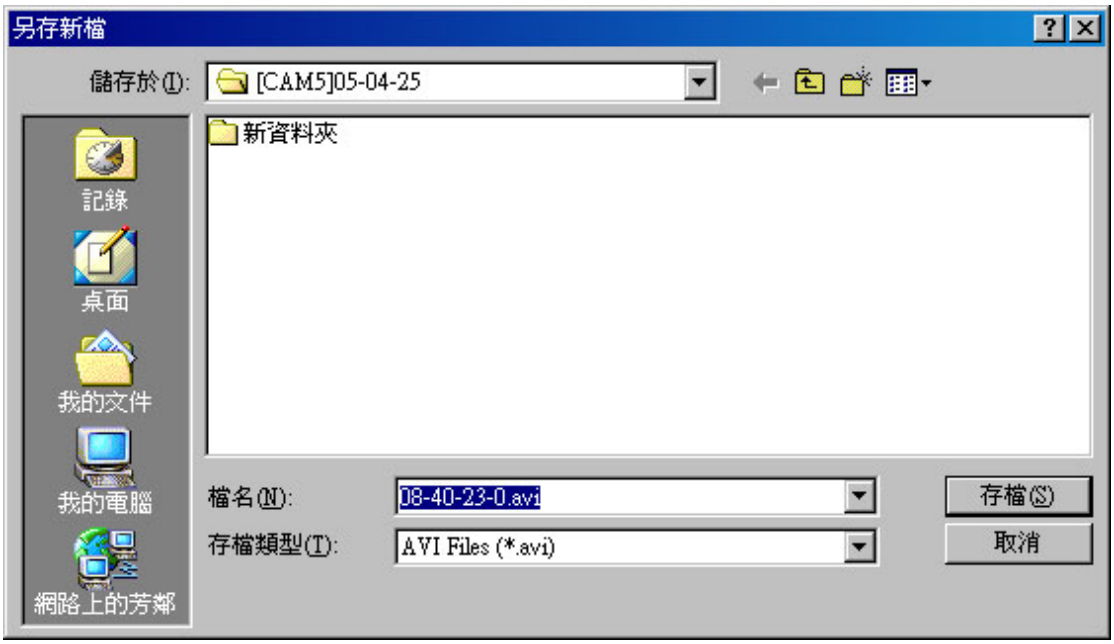
- **AVI Format Export:**

  This function provides you to transform the download files from CX3 format to AVI format.

  a. Open a download file.

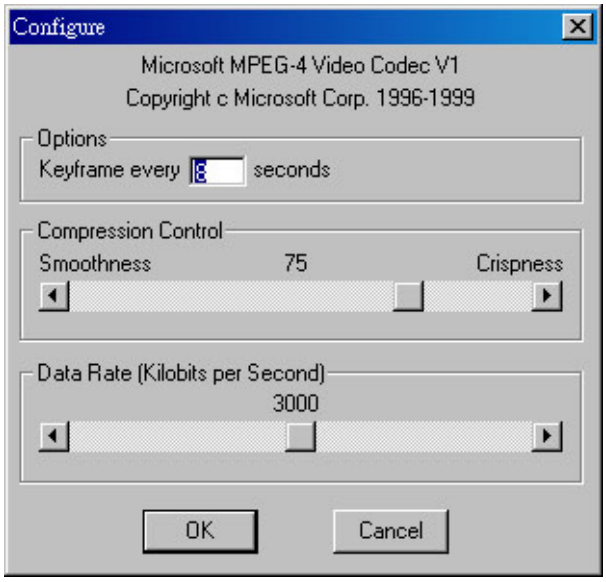
  b. In the “Tools’ bar, select “ **Convert to AVI**” and then select the path you want to save the AVI file and key in the AVI file name.



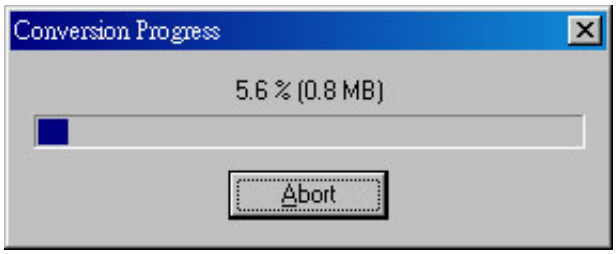


c. Select the transforming format. Here we choose Microsoft MPEG 4 Video Codec.

d. Select transforming parameters and it will influence the file's quality and size.



e. Enter " OK" and then it will show the transforming status.

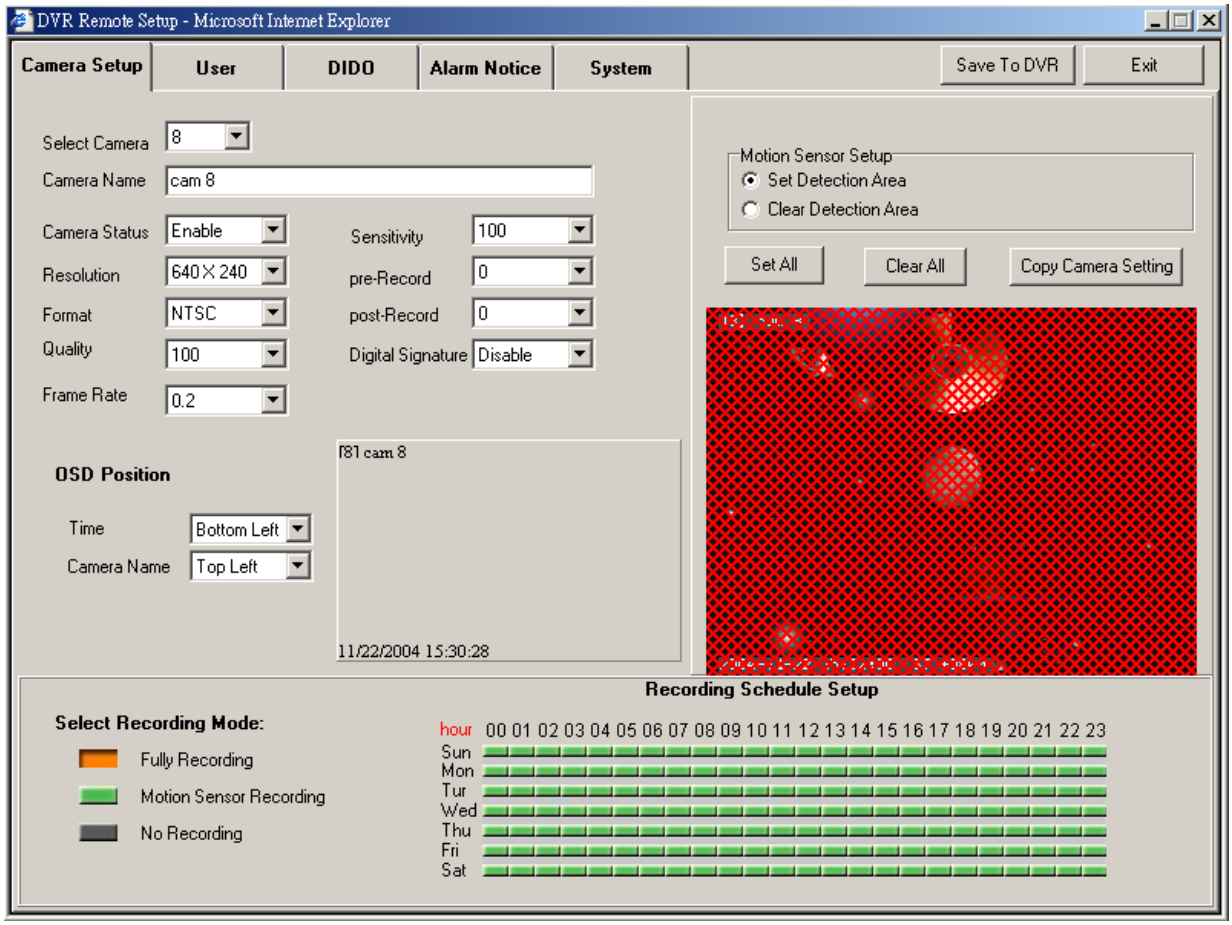


Note:

- The codec you choose are not all workable but it will prompt a warming message if it is not workable.
- The time of transforming format will depend on the file size and the codec you choose.

6-6 DVR Remote Setup

Click on the Remote Setup to see the screen below.

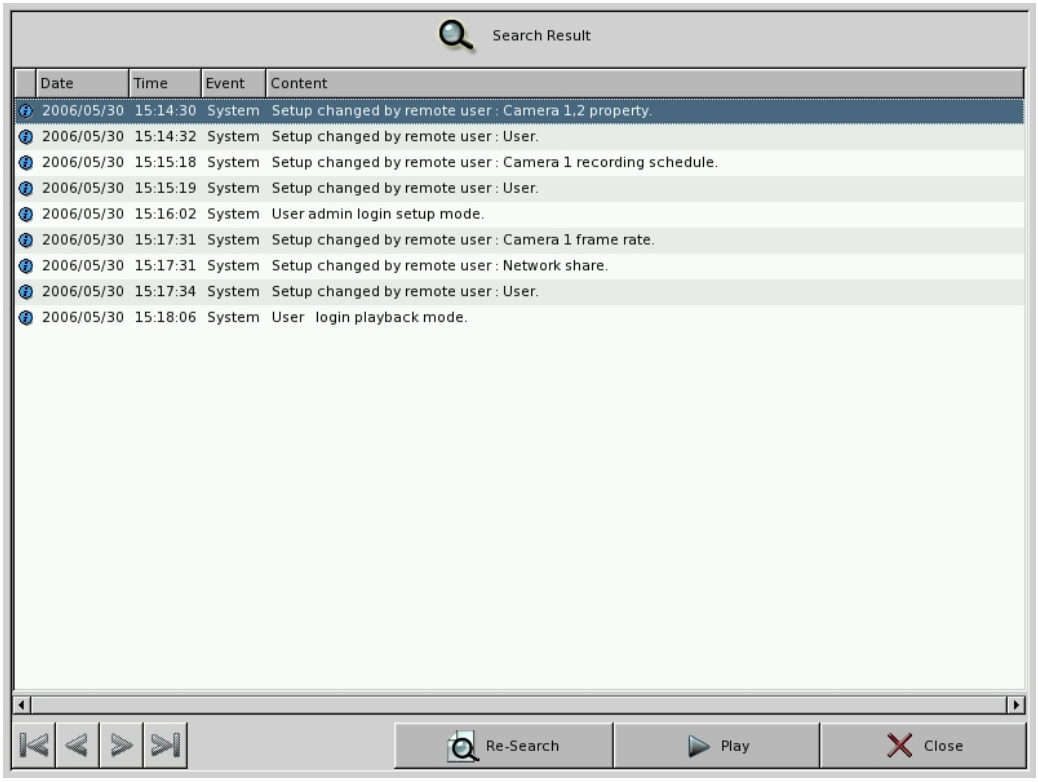


The operation is very similar to the “System Settings” in Chapter 4.
Adjust the settings and click “Save To DVR” icon on the upper right to take effect.

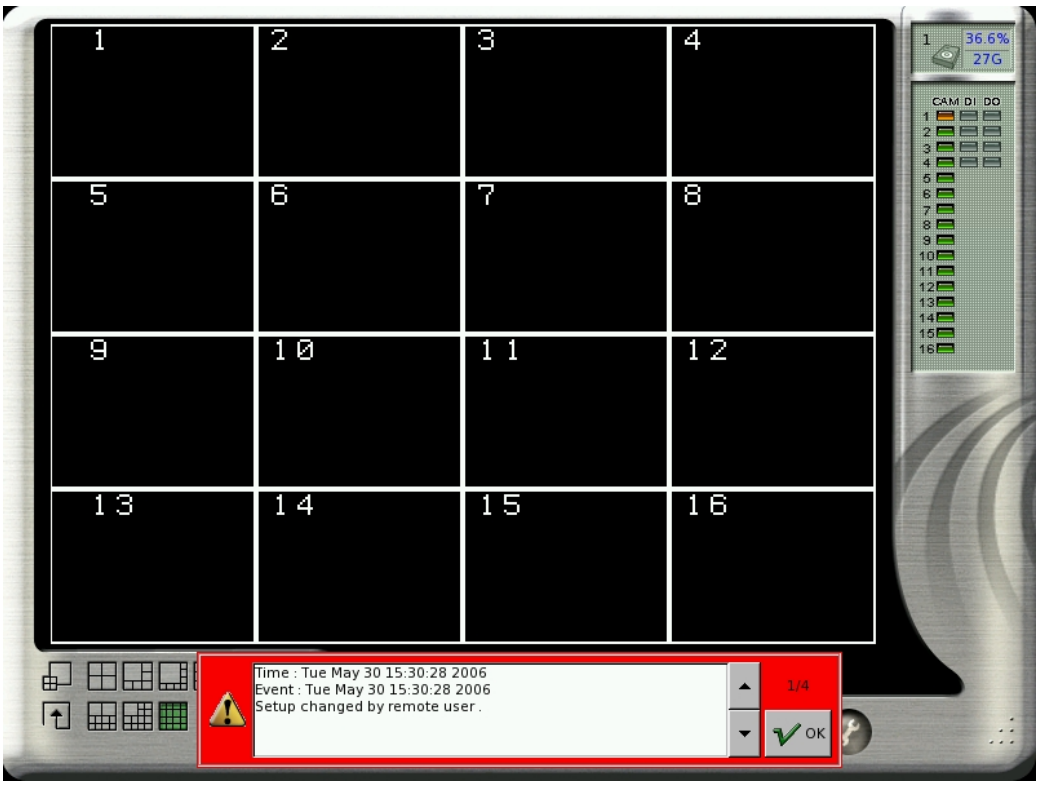
6-6-1 Remote Setup Record

Each DVR remote setup change will be saved in the log system (refer to 3-2-2 Search by Event). The record will show any configuration that is changed by remote users.

Record shown in “Event Search


Search Result
Date Time Event Content
2006/05/30 15:14:30 System Setup changed by remote user : Camera 1,2 property.
2006/05/30 15:14:32 System Setup changed by remote user : User.
2006/05/30 15:15:18 System Setup changed by remote user : Camera 1 recording schedule.
2006/05/30 15:15:19 System Setup changed by remote user : User.
2006/05/30 15:16:02 System User admin login setup mode.
2006/05/30 15:17:31 System Setup changed by remote user : Camera 1 frame rate.
2006/05/30 15:17:31 System Setup changed by remote user : Network share.
2006/05/30 15:17:34 System Setup changed by remote user : User.
2006/05/30 15:18:06 System User login playback mode.
Re-Search
Play
Close

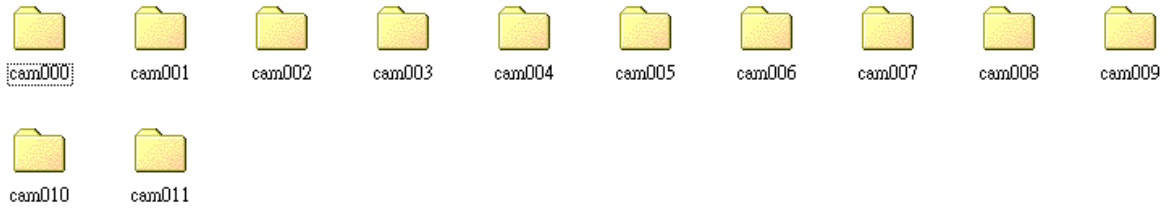
Besides, once any remote setup change is done, it will immediately send a message to you.



6-7 DVR Remote Backup

If the Network Share function is enabled, you can copy the video data of the DVR to any Windows PC in the same network.

(1) Search computer in the network by the DVR name or IP address.
(2) Enter the username: **dvrbackup** and password you set in chapter 4-8-3.
(3) Copy the files to hard disk or storage for backup.



7. Appendix

A. Compatible PC Hardware

- **Approval Motherboard List**

BrandName	Model	Chipset	# of PCI slot	on-board LAN
ASUS	P4P800-VM-TAY	Intel865G	3	Support
ASUS	P4P800S	Intel848P	5	Support
ASUS	P4P800-SE	Intel865PE	5	Support
ASUS	P4P800-X	Intel865PE	4	Support
ASUS	P5P800-SE	Intel865PE	4	Support
GIGABYTE	GA-8I845GE-RZ	Intel845GE	5	Support
GIGABYTE	GA-8I84E	Intel848P	5	Support
GIGABYTE	GA-8I848P-L	Intel848P	5	Support
GIGABYTE	GA-8I848P-G	Intel848P	5	Support
GIGABYTE	GA-8I848E	Intel848P	5	Support
GIGABYTE	GA-8IG1000 MK	Intel865G	5	Support
GIGABYTE	GA-8IG1000 Pro-G	Intel865G	3	Support
GIGABYTE	GA-8IPE1000-L	Intel865PE	5	Support
GIGABYTE	GA-8IPE1000-L GT	Intel865PE	5	Support
GIGABYTE	GA-8IPE1000 Pro	Intel865PE	5	Support
GIGABYTE	GA-8IPE1000 Pro2	Intel865PE	5	Support
GIGABYTE	GA-8IPE1000-G	Intel865PE	5	Support
GIGABYTE	GA-8IPE1000	Intel865PE	5	Support
SuperMicro	P4SPE	Intel865PE	5	Support
SuperMicro	P4SPE	Intel865PE	5	Support
SuperMicro	P4SPA+	Intel865G	5	Support
ECS	ESC 865PE	Intel865PE	5	Support

- **Minimum Hardware Requirements:**

	SV/SV+				SV1000				SV-2000
Channels	4	8	12	16	4	8	12	16	16
Chipset	Intel 848P, 865PE, 865G, 925X, 945P, 915G, 945G, 915P, 865GV				Intel 848P, 865PE, 865G, 925X, 945P, 915G, 945G, 915P, 865GV				Intel 848P, 865PE, 865G, 925X, 945P, 915G, 945G, 915P, 865GV
	SiS 645DX, 650GX, 648FX, 661FX, 648				SiS 645DX, 650GX, 648FX, 661FX, 648				SiS 645DX, 650GX, 648FX, 661FX, 648
VGA Card	NVIDIA MX4000, GeoForce 4 MX440, GeoForce 2 MX400, GeForce FX5500, MX4000, FX5200, FX6200, FX6500, FX6600, 6201TC, 6200TC				NVIDIA MX4000, GeoForce 4 MX440, GeoForce 2 MX400, GeForce FX5500, MX4000, FX5200, FX6200, FX6500, FX6600, 6201TC, 6200TC				NVIDIA MX4000, GeoForce 4 MX440, GeoForce 2 MX400, GeForce FX5500, MX4000, FX5200, FX6200, FX6500, FX6600, 6201TC, 6200TC
RAM	256M		512M		256M		512M		512M
CPU	Celeron 2.0G		P4 2.4G		Celeron 2.0G	P4 2.4G		P4 2.8G	P4 2.8G

- **Network Interface Chip**

Realtek 8139C, 8100B
Kinnerreth-R
Intel 82562EZ
Marvell 8001
Intel 82547EI

- **ATA Extension Card**

Promise Ultra 100 TX2
Promise Ultra 133 TX2
HighPoint Rocket 133

- **SCSI Card**

Adaptec 29160, 39160, 2940UW
Tekram: DC-390U, DC-390U2D, DC-390U2B, DC-390U2WE, DC390

ACARD

- **RAID0/1 support**

ACS 7500

- **RAID0/5 support**

ACS 7630

- **DVD Burner**

DVR Burner	Disk Type Support	Remarks
Pioneer	*DVD+RW *DVD-R *DVD-RW	Not support Pioneer DVD+R/RW
Asus	*DVD+R *DVD+RW *DVD-R *DVD-RW	

- PTZ Model

Model
Lilin
Pelco-D
Pelco-P
Panasonic
Sensormatic
DongHwa
TOA
Kalatel
SANYO
Hi Sharp
Samsung
GTICO(Small)
GTICO(big)
YoKo
Dynacolor

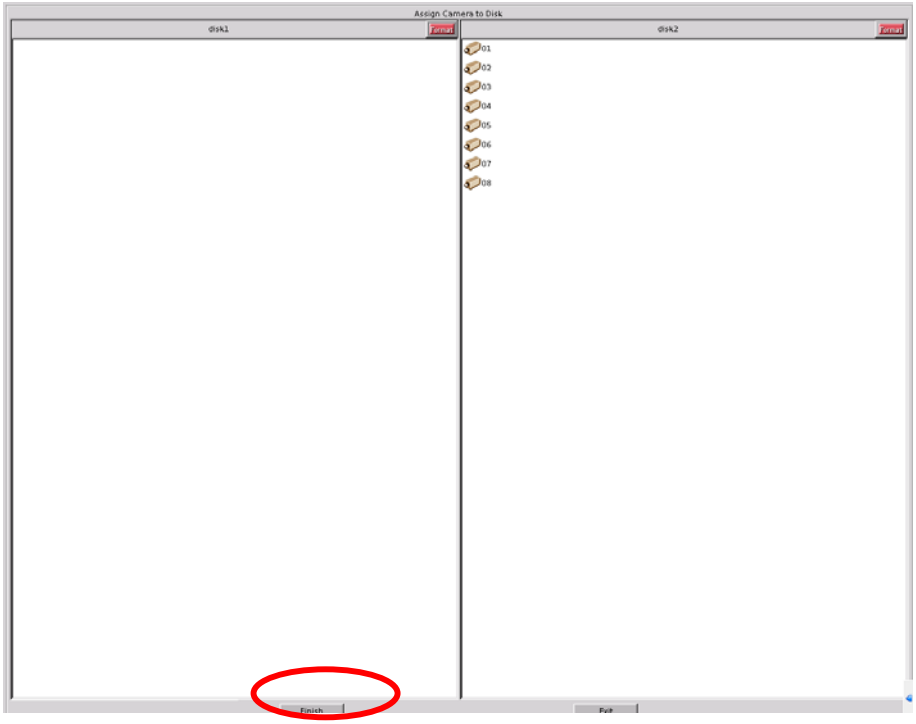
B. Main Menu

Every time you start the DVR, you shall see the Main Menu for advanced system functions.

- **Start DVR:** To start the DVR normally.
- **Play Recorded Video:** Playback only. Be sure to enter admin user password first when you want to enter the Play Recorded Video icon. This option is used to playback a hard disk without rewriting it with new recording contents.
- **Disk Tools:** Be sure to enter admin user password first when you want to enter the Disk Tools icon.

- ✓ S.M.A.R.T Diagnostic: To examine the internal record of the hard disk.
- ✓ Disk Scan: To check the hard disk status using Linux tools.
- ✓ Disk Manager: To assign cameras to hard disks or to format hard disk. Furthermore, this function also can collect recorded data of a camera in different hard disks to one hard disk when reallocating the camera to hard disks.

When you plug in or replace new hard disks/ DOM, or execute “Disk Tools” in “Main Menu”, Diskmanager will help you collect data of a camera that is recorded in different hard disks to one specific hard disk. The following dialogue will appear:



Click “**Finish**” to start re-allocation.

- **System Tools:**
  - ✓ Reset Configuration: To reset all the settings to factory default.
- **Select Language:** To select your preferred language (Traditional Chinese, English, Japanese, French, German, Portuguese, and Spanish).

C. FAQ

1. Q. I have set the recording mode as motion sensor recording. But why the DVR still records a lot of video that has no motion at all?

   A:

   (1) The digital recording system is very sensitive. It can detect the tiniest motion that human eyes cannot perceive. You can lower the sensitivity setting in camera setup menu.

   (2) Flickering fluorescent lights (when traditional 120 Hz ballast are used) or TV (or computer) screen can be the motion source. In this case, adjust the motion detection area so that these flicking sources will not be detected. It is recommended not to align the camera directly at fluorescent lights, TV, or computer screens. The use of better-quality fluorescent lights (with electronic ballast), monitors, and the cameras can be considered.

   (3) When cameras are installed, please make sure the quality of cables, connections, and workmanship. Sometimes interference could cause the image unstable. Avoid placing the system close to a compressor (fridge), or to a motor (washing machine) that might cause magnetic interference.

2. Q: What will happen if there is a power outage (cut)? Do I have to do anything?

   A: If a power outage occurs, the last file will not be closed properly. Therefore, up to 10 minutes of data might be lost. It is recommend connecting the system to an Uninterruptible Power Supply (UPS). This will help to avoid shortening the system life span and partial data loss caused by the instability of power supply.
   When the power returns, the system will automatically re-boot, restore data and go back to the normal operation in approx. 1 minute.

3. Q: Why the remote monitor not working?

   A:

   (1) Using the windows command PING to check if the network connection is ok.

   (2) Turn of proxy setting off.

   (3) Make sure you have Java VM installed (in JPEG mode) or Player installed (in MPEG4 mode).

(4) Check security setting in IE browser is not too restricted. The active X option must be enabled.

4. Q: How to check the log file of the DVR?

A: The log file can be seen from remote PC using IE browser. Suppose the DVR IP address is 192.168.123.12, type http://192.168.123.12/log/dvrlog.php on a remote PC to see the log.

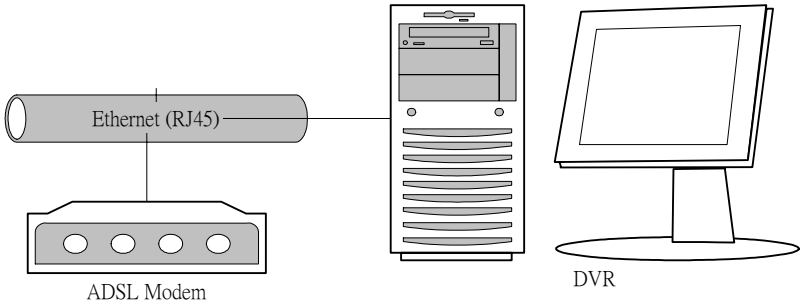
5. Q: How to capture the snapshot of the whole screen?

A: It can be done from remote PC using IE browser. Suppose the DVR IP address is 192.168.123.12, type http://192.168.123.12/rmapi/misc/screen-snapshot on a remote PC to see the picture.

D. Internet Connection

D-1: IP address is used by one DVR only

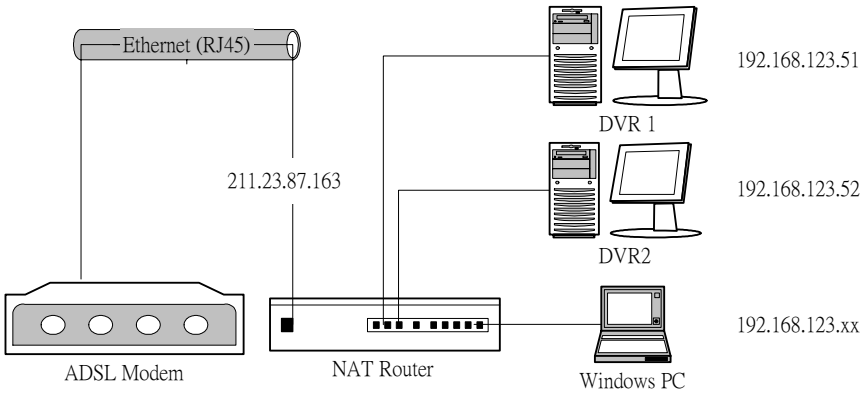
Assume the static IP address you get from ISP is 211.23.87.163.
When
(1) The IP address is not used by any other devices, and
(2) ISP does not require user name and password to connect,
You can connect like the following figure:



In this case, just follow the instructions in section 3-6-7 and section 4-2 to make the DVR on Internet.
User from Internet can use http://211.23.87.163 to connect to the DVR.

D-2: IP address is shared by more than one devices

Assume the static IP address you get from ISP is 211.23.87.163.
When
(1) The IP address is shared by more than one devices, or
(2) ISP requires user name and password to connect,
You can connect like the following figure:



In this case, you will need an NAT router to connect to the high-speed modem. Please refer to the user manual of your NAT router to translate DVR1 (192.168.123.51 port 80) to a port of 211.23.87.163, for example, port 8001. Similarly, translate DVR2 (192.168.123.52 port 80) to another port of 211.23.87.163, say, port 8002. You also need to set the user name and password on this router in order to successfully connect to ISP. Follow the instructions in section 3-6-7 to set the IP address of DVR1 as 192.168.123.51.

Users from Internet can now use http://211.23.87.163:8001 to connect to DVR1 and use http://211.23.87.163:8002 to connect to DVR2.

E. Maintenance

Avoid placing the system in a high temperature or a high humidity environment and also keep away from the place with frequent vibrations. Operate the system under stable voltage. If possible, operate the system with a UPS (Uninterruptible Power Supply)